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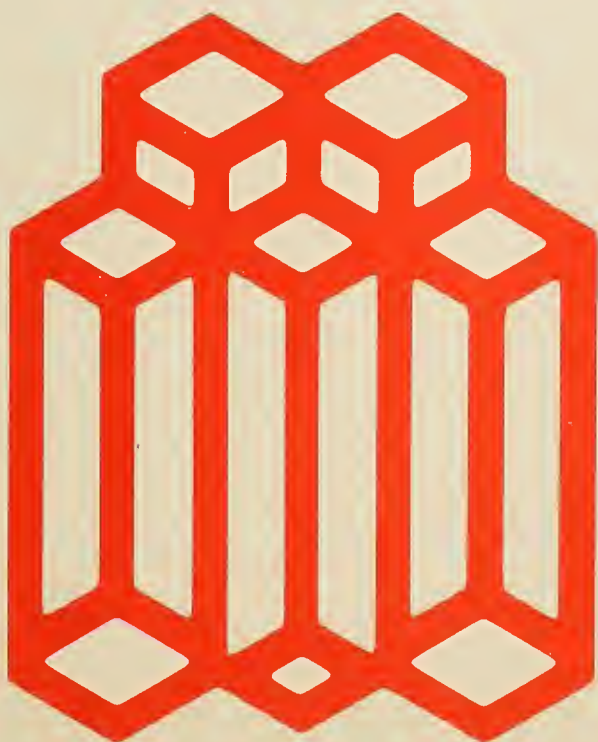
1982

Census of Mineral Industries

MIC82-S-1

SUBJECT SERIES

General Summary



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The publications
from the 1982 Economic and
Agriculture Censuses are dedicated
to the memory of Shirley Kallek,
Associate Director for Economic Fields.
During her career at the Bureau of the
Census (1955 to 1983), she continually
directed efforts to improve
the timeliness and accuracy of
economic statistics.

1982 Census of Mineral Industries

MIC82-S-1

SUBJECT SERIES

General Summary

Issued October 1985



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

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INDUSTRY DIVISION

Gaylord E. Worden, Chief

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INTRODUCTION

I. GENERAL BACKGROUND

1. The Economic Censuses
2. Economic Significance of the Mining Sector
3. The Census of Mineral Industries—Survey Description
4. Industry Classification of Establishments
5. Geography Classification

II. METHODS

6. Planning and Preparation
7. Reporting Forms
8. Mailing Lists
9. Coverage and Accuracy
10. Geographic Area Coding
11. Data Collection
12. Data Processing

III. COMMENTS ON STATISTICAL MEASURES AND TABLES

13. Establishments: During the Year and at the End of the Year
14. Employment and Payroll in Auxiliaries
15. Supplies Consumed
16. Value of Shipments and Receipts
17. Value Added by Mining
18. Capital Expenditures and Gross Assets
19. Inventories
20. Subject Reports
21. Confidentiality
22. Microfiche
23. Special Tabulations
24. Abbreviations and Symbols

I. General Background

1. THE ECONOMIC CENSUSES

General—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, service industries, mineral industries, and construction industries. In 1982, these industries accounted for nearly 59 percent of the \$3,025.7 billion of the gross domestic product and 67 percent of that originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture and forestry; communications; electric, gas, sanitary services; and transportation.

Economic censuses over time—The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was

added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications¹ (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations).

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently. Dates of the economic censuses from 1809 to 1982 are shown in table A.

Table A. Years Covered by Economic Censuses:
1809 to 1982

Year	Manu- fac- tures	Min- eral indus- tries	Fish- eries	Con- struc- tion indus- tries	Retail trade	Whole- sale trade	Service indus- tries	Trans- porta- tion ²
1809.....	X	—	—	—	—	—	—	—
1819.....	X	—	—	—	—	—	—	—
1839.....	X	—	—	—	—	—	—	—
1840.....	—	X	—	—	—	—	—	—
1849.....	X	—	—	—	—	—	—	—
1850.....	—	X	—	—	—	—	—	—
1859.....	X	—	—	—	—	—	—	—
1860.....	—	X	—	—	—	—	—	—
1869.....	X	—	—	—	—	—	—	—
1870.....	—	X	—	—	—	—	—	—
1879.....	X	—	—	—	—	—	—	—
1880.....	—	X	X	—	—	—	—	—
1889.....	X	X	X	—	—	—	—	—
1899.....	X	—	—	—	—	—	—	—
1902.....	—	X	—	—	—	—	—	—
1904.....	X	—	—	—	—	—	—	—
1908.....	—	—	X	—	—	—	—	—
1909.....	X	X	—	—	—	—	—	—
1914.....	X	—	—	—	—	—	—	—
1919.....	X	X	—	—	—	—	—	—
1921.....	X	—	—	—	—	—	—	—
1923.....	X	—	—	—	—	—	—	—
1925.....	X	—	—	—	—	—	—	—
1927.....	X	—	—	—	—	—	—	—
1929.....	X	X	—	X	X	X	—	—
1931.....	X	—	—	—	—	—	—	—
1933.....	X	—	—	—	X	X	X	—
1935.....	X	X	—	X	X	X	X	—
1937.....	X	—	—	—	—	—	—	—
1939.....	X	X	—	X	X	X	X	—
1947.....	X	—	—	—	—	—	—	—
1948.....	—	—	—	—	X	X	X	—
1954.....	X	X	—	—	X	X	X	—
1958.....	X	X	—	—	X	X	X	—
1963.....	X	X	X	—	X	X	X	X
1967.....	X	X	X	X	X	X	X	X
1972.....	X	X	—	X	X	X	X	X
1977.....	X	X	—	X	X	X	X	X
1982.....	X	X	—	X	X	X	X	X

²Includes only selective transportation activity.

Use of the economic censuses—The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

Enterprise statistics—Throughout the history of the economic censuses, the unit of enumeration has been the establishment—i.e., a single physical location engaged in a specific line of business (for more discussion, see item 4, "Industry Classification of Establishments"). This unit is best suited for obtaining measures of direct output and inputs—labor, materials, capital, etc. It is also best suited for providing refined industry and geographic tabulations. Statistics measuring overall income and balance sheet data are best collected at the company or enterprise level. In the early 19th century, these two business units were often identical. With the rise of large-scale operations, it became quite common for the large companies to operate many separate establishments in a number of diverse industries so that today the establishment and enterprise frequently are not the same. Enterprise measures and balance sheet data have typically been provided by the Internal Revenue Service in its Statistics of Income, and by the Census Bureau in its Quarterly Financial Report of Corporations.

In 1954, the Bureau of the Census, as a result of the coordinated collection and tabulation of comparable data for several economic sectors, also developed an enterprise statistics program.

This program relates census company-level data to data measuring the activities of individual operating units or establishments within the companies. Thus, a measurement of the integration and diversification of the American enterprise system became available. The enterprise statistics programs also made it possible to link census establishment-based data on a modified basis to other enterprise-based statistical systems such as the Internal Revenue Service's "Statistics of Income" for corporations.

Legal provisions—The periodic economic censuses are required by law. Title 13 of the United States Code specifies the frequency of the censuses, the kinds of activities to be covered,

the obligation to report, the penalties for failure to report, and the confidentiality of returns. It also authorizes the use of sampling techniques in conducting censuses. As amended in 1964, Title 13 requires the economic censuses to be taken at 5-year intervals, covering the years ending in "2" and "7." The next censuses will cover the year 1987. The pertinent portions of Title 13 are quoted in appendix C.

2. ECONOMIC SIGNIFICANCE OF THE MINING SECTOR

The mineral industries, in recent years, have accounted for about 2 percent of national income and have provided employment for about 1 percent of all gainful workers in the United States. Nevertheless, the mineral industries furnished a large proportion of the raw materials base of the economy. In 1982, the mining industries accounted for 40 percent of the net value added by the combined domestic raw materials industries of mining, agriculture, forestry, and fishing.³

Minerals production in the United States requires relatively larger capital expenditures than does manufacturing production. Although value added by mining in 1982 amounted to only 18.6 percent of total value added for mining and manufacturing combined, capital expenditures in the mineral industries were 37.0 percent of the total for mining and manufacturing (see table B). Moreover, the oil and gas extraction industries alone accounted for 32.7 percent of all capital expenditures for mining and manufacturing. In comparing figures in table B, it should be noted that value added by mining includes a measure of value added in the development of mineral properties (see item 17), and capital expenditures include expenditures for development of mineral properties (see item 18).

Table B. Value Added, Capital Expenditures, and Employment in Mineral and Manufacturing Industries: 1982

Item	Value added (million dollars)	Capital expenditures (million dollars)	Employment (1,000)
Mineral industries:			
All mining	188 055.0	47 752.8	1 113.6
Oil and gas ex- traction only .	159 936.6	42 215.5	684.5
Manufacturing industries	824 117.7	81 464.3	19 094.1
Mineral industries as percent of mineral and manufacturing industries:			
All mining	18.6	37.0	5.5
Oil and gas ex- traction only .	15.8	32.7	3.4

3. THE CENSUS OF MINERAL INDUSTRIES—SURVEY DESCRIPTION

In the farm-oriented economy of the early 19th century, the need for mineral statistics for setting government policy, except for tariffs and taxes, was slight. The only sources of information on the mining sector were the censuses of mineral industries, then taken at 10-year intervals. Today, the need for mining statistics has greatly increased so there is now a vast array of detailed information covering virtually every measurable aspect of mining activity including employment, payrolls, hours worked, production, prices, inventories, orders, investment in structures, machinery and equipment, and consumption of raw materials, fuels, and water. The census of mineral industries, though conducted only at 5-year intervals, still plays an essential role, since no other source measures the structure of the mining sector in such a comprehensive and detailed way.

For every mining establishment with one employee or more, the census obtains data on its input of labor, materials, and capital; its output of products and services; its location; and the legal form of organization of the owning firm.⁴

A set of summary or general statistics are developed for each establishment (i.e., total employment, payroll, production-worker employment, hours worked, wages, cost of supplies, value of shipments and receipts, capital expenditures, and value added by mining) and aggregated by industry, by area, by employment size of establishment, and by type of ownership. Reports are published on the detailed industrial characteristics of each State, and overall measures of mining activity are shown at the county level provided the information can be published without compromising the confidentiality of individual company data. Since census legislation guarantees confidentiality to the firms that are required to report, it is frequently necessary to suppress some aggregates.

The census of mineral industries also is used to update other indicators of economic activity, especially the national income accounts. Census data on materials consumed and product output by industry are basic to the input-output matrix developed by the Bureau of Economic Analysis for the mining sector. The Federal Reserve Board monthly Index of Industrial Production—a key indicator of current economic activity—relies on census industry and product data as benchmarks and weights to sum industries to higher levels of aggregation. The census also provides benchmarks for surveys conducted by other government agencies and by associations.

4. INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Structures of the standard industrial classification—The establishments in the census of mineral industries are classified according to the Standard Industrial Classification (SIC) Manual. The SIC manual covers the entire field of economic activities, subdivided as follows:

³U.S. Bureau of Economic Analysis, Survey of Current Business, July 1982.

⁴Since 1967, some of this information for small companies was not obtained directly but estimated from other government records. See the discussion of coverage of establishments in items 4 and 6.

Industrial division	Title	Major groups
A	Agriculture, forestry, and fisheries	01-09
B	Mining	10-14
C	Contract construction	15-17
D	Manufacturing	20-39
E	Transportation, communication, electric, gas, and sanitary services	40-49
F	Wholesale and retail trade	50-59
G	Finance, insurance, and real estate	60-67
H	Services	70-89
I	Public administration	91-97
J	Nonclassifiable establishments	99

Below the major group level, the SIC provides for three-digit groups and finally for four-digit industries. To illustrate:

Division B—Mining

Major group 10 Metal mining
Industry group 104 Gold and silver ores
Industry 1044 Silver ores

The SIC was developed to classify establishments as distinguished from similar systems used to classify companies or enterprises. An establishment is defined as a single physical location engaged in one of the industry categories of the SIC.

The SIC is the responsibility of an interagency technical committee established by the Office of Management and Budget. The system is used by all Federal Government agencies engaged in the classification of establishments. Many State and local governments and business concerns also organize their own records along SIC lines in order to facilitate comparison with federal statistics.

The first SIC manual was issued in 1939. For the mining sector, the nucleus was the set of industry classifications developed over many years for use in the census of mineral industries. A revised manual was issued for the mining industries in 1945 and, with minor modifications, used for the 1954 Census of Mineral Industries. Minor revisions of the SIC between 1958 and 1967 introduced some four-digit industry changes, but none of them crossed three-digit group lines. Another revision of the SIC for 1972 produced additional four-digit industry changes. This revision affected 17 industries, as defined for 1967, by merging them into 6 newly defined industries. These revisions and their impact on comparability appear in the introduction, "Industry and Product Classification" of the 1972 Census General Summary.

Structure of the SIC mining division—For the mining division, there are five two-digit SIC major groups (10 to 14), which are subdivided into twenty three-digit SIC groups (101 to 149), and further subdivided into forty-two 4-digit industries (1011 to 1499).

Most of the 42 mineral industries are defined in terms of specific groups of related products. In determining the boundaries of industries, it is essential that each industry comprise a

group of establishments that are highly specialized in producing products that define the industry (primary products) and that a large proportion of all the products be made in establishments classified in the industry.

There are wide differences among industries in their purity—i.e., the extent to which the establishments classified in the industry (a) account for the total production of commodities "primary" to the industry, (b) produce products or services "belonging" to other industries (that is, secondary products), and (c) use similar materials or processes. These variations are frequently construed to be shortcomings. However, these limitations in the classification structure arise from the inherent complexity of our economic system and from the variation in types of production that take place in individual establishments.

While the SIC is the basis for aggregating census data, the data collected, in turn, provide the statistical basis for periodic critical evaluation of that classification system and its revision.⁵

No general-purpose system of industrial classification can satisfy all users of census data. Some business users are interested primarily in a narrow range of products which they and their competitors produce. Others are involved in a wide range of products that move through the same marketing channel. Others seek data relating to the consumers of one or more types of materials. Some are interested only in the data for highly specialized plants—others, for plants producing a "full line" of products. Those studying productivity may require data for plants using the same techniques.

The large number of SIC industries provides the analyst with the "building blocks" for making useful approximations, even if specific data cannot be developed to resolve many of these problems. A single general-purpose system of classification can only partially satisfy these diverse needs; a point is soon reached at which the adaptation of a system to serve one use better will reduce its ability (sometimes disproportionately) to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries differently from the two- and three-digit SIC categories. Public and private agencies also recombine the detailed classes. By and large, the four-digit industries are more susceptible to allocation to such categories than the two-digit SIC groups.

Subindustries—The Bureau of the Census frequently has further classified some of the basic four-digit SIC industries into "subindustries." Subindustries are employed where there are wide disparities in the operating ratios of the establishment in the industry because the establishment is operated as a mine only, a mine with treatment plant, a treatment plant only, or because the operated mine is underground, open pit, or a combination. This technique was used for all mining industries for editing purposes, and many were regarded as significant enough to be used for publication.

Definition of mining—The mineral industries include all establishments primarily engaged in mining. This term is used in the broad sense to include the extraction of minerals occurring naturally: solids, such as coal and ores; liquids, such as crude petroleum; and gases, such as natural gas. The term "mining"

⁵See "Industry Classification and Sector Measures of Industrial Production" by James W. McKid, Bureau of the Census Working Paper No. 20, 1965, and "Historical Comparability of Census of Manufactures Industries, 1929-1958" by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

is also used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparation and beneficiating needed to render the mineral marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the development of mineral properties are classified separately within this division.

Mining operations are classified by industry, on the basis of the principal mineral produced; or, if there is no production, on the basis of the principal mineral for which exploration or development work is in process. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

Mineral preparation plants are usually operated together with mines or quarries and, frequently, no separate records for them are maintained. All such preparation plants are included in the scope of the minerals census. In general, separately operated preparation plants, whether they process minerals for the account of the operator or on a custom or toll basis for others, are also included in the minerals census. Coal cleaning and sizing plants operated at mines or as separate establishments are also included. However, crushing, grinding, and other treatment of certain nonmetallic minerals at separately operated plants is included in the manufacturing industries. Contract hauling (except out of open pits in conjunction with mining) is excluded from the mineral industries.

Statistics on mining operations which are carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants) are not within the scope of this census. However, certain information on these operations has been obtained in the census of manufactures and is included in some of the industry reports and in the State reports. Wherever such inclusion occurs, it is clearly specified.

All blast furnaces; metal smelters; metal and petroleum refineries; plants manufacturing cement, brick, tile, and pottery; and plants engaged in dressing or polishing stone are classified in the manufacturing industries. Separate reports were obtained and included in the minerals census for the few ore dressing plants operated in conjunction with smelters.

SIC classifies establishments—The SIC is an establishment classification system, and the census of mineral industries is conducted on an establishment basis. That is, a company with operations at more than one location is required to submit a report for each location. On the other hand, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity if the plant records permit such a separation and if the activities are substantial in size.

For oil and gas field operations and contract services, reporting was somewhat different from the "establishment" reporting basis used for other types of mining. Concerns operating oil and gas wells, drilling wells, or exploring for oil and gas for its own account were required to submit a separate report for each State or offshore area adjacent to each State in which they conducted such activities and to include employment, production, and capital expenditure data at the county level. Concerns which supplied contract services for mining establishments were required to submit one report covering all such activities in the United States. Information on receipts for services was requested by State and county. These consolidated reports were then allocated to county establishments based on the data reported

at the county level. The 1982 figures for establishments include the summation of operations within each county allocated from these State or nationwide reports and, therefore, are not comparable to prior censuses.

The requirement that distinct lines of activity at the same location be separately reported was applied only where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, many mining establishments extract products that fall into different SIC industries. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in activities defined in different industries of the SIC. Frequently, companies organize their operations and their records separately for the diverse activities and report them as separate plants. When they do not do so on their own initiative, the Bureau of the Census requests separate reports if it appears that 100 employees or more are involved in each activity. For the most part, companies have cooperated and "split out" the different activities that would otherwise significantly distort the relationship of the industry and product statistics. Not infrequently, however, the two groups of products cannot be distinguished sufficiently in company records to provide establishment-type reporting.

Establishments included in census of mineral industries—Since the census of mineral industries for 1967, the censuses have included only establishments of companies with one or more paid employees. Prior to 1967, different criteria were used to determine if an establishment had to report in the census. In the 1963, 1958, and 1954 censuses, establishments without paid employees were excluded if any of the following three items amounted to less than \$500 for the entire year: (1) value of products shipped and services performed for others; (2) expenses for wages, salaries, supplies, minerals received for preparation, fuel, purchased electric energy, contract work, and purchased machinery, and (3) capital expenditures for development and exploration of mineral properties, new construction and major alterations, and new and used machinery and equipment.

In general, small establishments were excluded from the 1939 and 1929 censuses if each of three similar items amounted to less than \$2,500 and from the 1919 census if value of products was less than \$500 and expenditures for development work less than \$5,000. An output criterion of 1,000 tons for bituminous coal and lignite was used in these three censuses. Common sand and gravel operations were excluded in 1939 if they produced less than 15,000 tons of sand and gravel and had expenses of less than \$15,000. For 1929, common sand and gravel establishments producing less than 25,000 tons were excluded. This industry was not covered in censuses prior to 1929. In earlier censuses, there were no minimums for size of establishments.

The production of minerals, particularly stone, sand, and gravel, by Federal, State, and local governments is excluded from the census. Also excluded is production of these items by highway contractors and construction contractors who do not maintain separate records for sand and gravel production.

The census includes, however, mining establishments of the same company, such as coal mines serving only coke ovens operated by the same company, oil and gas wells serving only refineries or public utilities owned by the same company, and copper mines and mills where all of the ore is transferred to a company-owned smelter.

The percent of mining establishments, value added by mining, and capital expenditures by employment-size classes are shown in table C.

Table C. Percent of Mining Establishments, Value Added by Mining, and Capital Expenditures, by Employment-Size Class: 1982

Employment-size	Percent of total		
	Mining establishments	Value added by mining	Capital expenditures
All establishments	100.0	100.0	100.0
0 to 4 employees	61.2	17.1	24.8
5 to 9 employees	13.7	6.3	5.8
10 to 19 employees	11.0	9.6	8.1
20 to 49 employees	8.4	15.3	12.8
50 to 99 employees	3.0	12.7	12.8
100 to 249 employees . .	1.7	15.0	15.2
250 to 499 employees . .	.6	9.1	6.5
500 to 999 employees . .	.2	11.9	11.5
1,000 to 2,499 employees . . . . .	.1	3.0	2.5
2,500 employees and over			

In general, the 1982 minerals census reports provide complete coverage of production and development operations, although there are certain limitations to coverage in some industries. These limitations are discussed in detail in the industry reports.

Special treatment of small establishments—Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. In the 1982 minerals census, small single-unit companies with up to 20 employees (the cut off varied by industry), were excused from filing reports. Approximately 10,800 companies fell into this category in 1982. Limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the Internal Revenue Service (IRS) were made available to the Bureau of the Census for use in the 1967, 1972, 1977, and 1982 economic censuses. (Special arrangements were made to safeguard the confidentiality of both tax and census records.) Data other than payrolls and sales for these small establishments were imputed from industry average ratios. The effect on industry aggregates is slight in most industries; for mining as a whole, these small "administrative records" accounted for only 1.1 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" category.

If these establishments had been included in the 1977 Census of Mineral Industries, they were assigned the industry classifications to which they had been coded. If they had started operations later, they were coded on the basis of brief descriptions of the general activity of the establishment as reported to

the Social Security Administration. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between mining and nonmining activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the Bureau of the Census conducted a special classification survey in order to clarify the industry codes of some of the establishments in the administrative record file. All establishments without specific four-digit codes and those where there could be significant misclassification between mining and other sectors were either sent a classification questionnaire or a general schedule, Form NC-9923. Nevertheless, the total establishment counts in most industries should be viewed as approximations rather than precise measurements. The counts for establishments with 20 employees or more are far more reliable than the total number of establishments.

Auxiliary units—Mining requires a wide range of diverse support activities. These activities include general administrative, supervisory, purchasing, accounting, general engineering and systems planning, and legal, financial and related management functions usually performed centrally for other establishments of the same company. These separate locations are referred to as auxiliaries. An auxiliary is an establishment whose employees work primarily in supporting services for other establishments of the same company (i.e., its mines, factories, retail stores, etc.) rather than for other business firms or organizations. Employment and payroll data for auxiliary units are included in the published data for the census of mineral industries.

Product codes—The SIC coding system is designed to describe industries and operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are five very broad two-digit groups, twenty three-digit groups, and forty-two four-digit industries. Based on the SIC, the Bureau of the Census has developed a product coding system along similar lines which contains eighty-seven five-digit product classes and 194 individual seven-digit products. The seven-digit products and five-digit product classes are considered the primary products of the industry with the same first four digits as the product code. For example, the seven-digit product code number 1021105 refers to crude copper ore mined from open pit operations. The first five digits of this code number 10211, refer to the "product class" crude copper bearing ores, and the first four digits, 1021, refer to the industry in which these products are made (the copper ores industry). The same system is applied to the coding of materials. The first four digits of a material code (for example, the code number 102100, copper ores, concentrates, and precipitates) used as a material describe the industry that produces it. e.g., 1021, the copper ore industry.

The SIC-based commodity classification is used in the Bureau of the Census' entire industrial statistics program, including monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Bureau of the Census also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and TSUSA systems.⁶

Primary and secondary products of establishments—An establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value

⁶Schedule B is the U.S. export classification while TSUSA is applied to imports.

its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values of seven-digit product codes to their four-digit industry and the selection of the largest four-digit value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in any industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by mining, total value of shipments and receipts, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry reports) encompass not only the primary activities of the establishments in that industry but also their secondary activities. On the other hand, the product statistics in table 6 of the industry reports measure the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the general statistics of an industry, especially the industry total value of shipments (industry reports, tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in table 5 should be considered.

5. GEOGRAPHIC CLASSIFICATION

Census divisions and regions—The 1982 Census of Mineral Industries measures industrial activity at the national, State, and county levels. In prior censuses, similar information was also summarized for the traditional nine geographic divisions (e.g.,

New England, Middle Atlantic, etc.) and the four geographic regions (Northeast, South, Midwest, and West).

The presentation of data for individual industries and industry groups at all these geographic levels has always created serious problems in protecting the confidentiality of individual company data. Consequently, it has frequently been necessary to set priorities as to what will be published. In the past, the preference was given to publishing data for the broad geographic regions over States leading to greater suppression of industry detail at the State level. In recent years, there has been increasing interest in State information in preference to the broader regions. As a result, the 1977 and 1982 Censuses of Mineral Industries gave first precedence to publishing State figures. A decision was also made to forgo publication of any divisional and regional totals. This was desirable in order to avoid suppressing industry detail in one State that could have been published in order to protect data for another State in the same division that had to be suppressed to preserve the confidentiality of a respondent's figures.

Thus, some summary tables for the nine geographic divisions and four regions that were published prior to the 1977 censuses, do not appear in the publications of the 1982 Census of Mineral Industries. The relative importance of mining among the States is shown in table D.

Districts—In previous censuses, data were further segregated in the major oil producing States (Texas, Louisiana, New Mexico, and California). Selected figures were shown on a district basis in the oil and gas industry reports. However, for 1982, oil and gas data were neither collected nor published by district.

Table D. Value Added by Mining for States: 1982

Geographic area	Value added (million dollars)	Percent	Geographic area	Value added (million dollars)	Percent
United States	188 055.0	100.0	Maryland	167.3	.1
Alabama	1 979.7	1.1	Massachusetts	54.4	(V)
Alaska	14 093.2	7.5	Michigan	1 934.7	1.0
Arizona	748.4	.4	Minnesota	598.8	.3
Arkansas	1 015.1	.5	Mississippi	1 765.7	.9
California	11 844.3	6.3	Missouri	418.2	.2
Colorado	3 098.3	1.6	Montana	1 694.9	.9
Connecticut	47.3	(V)	Nebraska	246.0	.1
Delaware	2.2	(V)	Nevada	467.6	.2
District of Columbia			New Hampshire	17.3	(V)
Florida	1 860.4	1.0			
Georgia	430.1	.2	New Jersey	120.1	.1
Hawaii	9.7	(V)	New Mexico	7 126.7	3.8
Idaho	199.5	.1	New York	414.7	.2
Illinois	2 543.9	1.4	North Carolina	198.3	.1
Indiana	785.8	.4	North Dakota	1 999.1	1.1
Iowa	103.5	.1	Ohio	2 325.5	1.2
Kansas	3 195.7	1.7	Oklahoma	13 274.5	7.1
Kentucky	4 141.9	2.2	Oregon	60.3	(V)
Louisiana	33 117.0	17.6	Pennsylvania	2 936.8	1.6
Maine	5.3	(V)	Rhode Island	7.3	(V)

See footnotes at end of table.

Table D. Value Added by Mining for States: 1982—Con.

Geographic area	Value added (million dollars)	Percent	Geographic area	Value added (million dollars)	Percent
South Carolina	72.2	(V)	Washington	161.9	.1
South Dakota	115.9	.1	West Virginia	4 789.8	2.5
Tennessee	497.7	.3	Wisconsin	85.8	(V)
Texas	54 452.6	.29.0	Wyoming	6 858.8	3.6
Utah	1 664.8	.9			
Vermont	36.1	(V)	Offshore areas not associated with a State . .	2 803.4	1.5
Virginia	1 466.8	.8			

(V) Rounds to zero.

II. Methods

6. PLANNING AND PREPARATION

General—The Bureau of the Census has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State government agencies, individual companies, labor unions, and research and educational organizations is sought in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, the problems encountered in the previous censuses are studied, and improved methods of collection, processing, and tabulation are explored.

Mailing lists—Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from IRS and SSA records. These records were also sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, feasibility studies indicated that greater use could be made of the data in the IRS-SSA records. In the 1967 censuses, over 2,000,000 firms were exempted from the filing requirement, including 10,000 small mining firms. Instead, census-type statistics for this group were developed from IRS-SSA records. In close cooperation with IRS and SSA, specific procedures for the use of individual tax returns that assured confidential treatment of them were developed and set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The records used were business income tax returns (IRS forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS form 941). The name, address, payroll, and gross business receipts were obtained from these reports, in addition to the SIC industrial activity code assigned by SSA. Other census statistics for these small firms were imputed using industry average ratios of the data item to payrolls and sales.⁷

This procedure was repeated in the 1972, 1977, and 1982 economic censuses. In 1972, there was a concerted effort by the Bureau of the Census to improve the industry coding of the

administrative record by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC. Similar efforts were made in 1977 and 1982 to clarify the classification of firms which SSA had not been able to code precisely.

Planning the content of questionnaires—As in previous censuses, the content of the 1982 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the mineral concerns who supply the data and those who use the statistics. Those consulted included government agencies, individual firms, the American Statistical Association, the American Economic Association, the American Marketing Association, and all mining associations covering specific industries.

Many individual mining companies and their trade associations were consulted about the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1982 product sections were circulated among trade associations and mining companies, both large and small. These draft report forms included new product detail reflecting suggestions received by the Bureau of the Census after the 1977 canvass. Items whose total value was \$10 million or less were not retained separately in the list unless they were needed to assure correct classification of other products or were of strategic importance. A restriction was also placed on proposals for new product detail; it was stipulated that the 1982 value of any new product category should exceed \$20 million.

The mining operators were requested to comment specifically on the availability of the data requested in their records, and the appropriateness of the product descriptions and units of measure.

The many comments and suggestions received in this clearance procedure were evaluated by the census staff. A detailed account of the clearance procedure and the decisions reached was forwarded to the Office of Management and Budget, along with the product sections developed by the Bureau of the Census as a result.

A final review was made by the Office of Management and Budget with the assistance of the Advisory Council on Federal

⁷Imputation was only about 2 percent of overall totals.

Reports. The latter organization is a group of business executives such as controllers, economists, and market research directors, representing a cross section of all industries.

7. REPORTING FORMS

A representative selection of the reporting forms used in the census are discussed below.⁸

General forms— This group of forms was used in the economic censuses, generally, either as company-wide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-9901, Report of Organization— This company-wide report was used prior to mailing the 1982 census questionnaires to develop the directory of establishments operated by multiunit companies. A more detailed account of their use is given in item 8, "Mailing Lists."

NC-9920, Listing of Additional Establishments— This form was included with the economic censuses forms mailed to multiestablishment companies to obtain a list of establishments that were acquired after the NC-9901 was filed. These additional plants were classified, added to the NC-9901 directory list, and mailed the appropriate 1982 economic censuses report forms.

NC-9923, General Schedule— This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-9923 was used to classify these companies by industry and tabulate their data in the appropriate census.⁹

ES-9200, Auxiliary Establishment Report— Many multiunit companies maintain separate establishments to provide centralized administrative, management, or other supporting services for other establishments of the same company, but not for the general public or other companies. They were asked to complete form ES-9200 for those establishments. The form contained questions on the approximate number of employees engaged in such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmining establishments. The respondent was also asked to describe the industry activity of the operating establishments serviced by the auxiliary unit reporting on form ES-9200.

ES-9100, Enterprise Summary Report— Each large multiunit company received a form ES-9100, Company Summary Report, in addition to a specific questionnaire for each establishment. The ES-9100 requested consolidated company totals for receipts, new capital expenditures, inventories, and fixed assets, which are published as part of the Census Bureau's Enterprise Statistics Program described in Section I.

Census of mineral industries forms and instruction manuals— The questionnaire and instructions reproduced in the appendix, form MC-1201, is typical of the 11 long forms used for operating mining establishments. Each of these forms was designed to be used for specific group of industries. The inquiries on the 11 long forms were identical except for the detailed questions on products shipped, materials used, assets for oil and gas extraction industries, and miscellaneous topics such as operations performed, metal contents of complex ores, and drilling statistics.

Short form— The stone and sand and gravel industries include a large number of small-to-medium sized firms that account for a significant portion of the industry's output. Usually these firms are not so small that the limited data in the administrative-records files would meet the needs of the census. To obtain sufficient data, yet hold the reporting burden down for these smaller firms, a special abbreviated short form was designed (MC-1471). Key input and output statistics were obtained without the detail requested on the standard form.

8. MAILING LISTS

General— As discussed in item 6, the list of respondents for 1982 was obtained from IRS-SSA records. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,¹⁰ it was necessary to follow separate procedures for multiunit companies (those operating at more than one location).

The prec canvass— Multiunit companies were required to file at least one establishment report¹¹ covering each location. In order to mail the appropriate questionnaires, it was necessary to determine the type of activity at each location operated by multiestablishment companies. The Bureau of the Census conducts an annual update of its directory of establishments operated by large companies in which "Report of Company Organization" (form NC-9901) is mailed each year to known multiunits.

This form consists of a report on company affiliation and a list of the domestic establishments operated by the company. The company's establishments as identified in census records are prelisted and the respondents are asked to correct this list. They are also asked to describe new establishments not prelisted and indicate their size.

Large multiunit companies are segregated for special handling because of possible overlap and duplication. Many of these companies are active in manufacturing, retail, and wholesale trade as well as in mining. The reporting instructions are reviewed in discussions with officials of the accounting departments of many of these firms to make certain that the procedure is understood and the establishments are properly described on form NC-9901.

¹⁰The SSA records for multiunit companies identify "reporting units," which in many instances correspond to census establishments. The differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Bureau of the Census concept of a company differs from the IRS-SSA definition, since the Census company includes all establishments under common ownership or control. In the IRS-SSA records, subsidiary corporations are often treated as independent companies.

¹¹If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see "SIC classified establishments" in item 4, above.)

⁸A Sample of the general forms and the mineral industry forms are reproduced in appendix E.

⁹The use of form NC-9923 is also discussed in item 8, "Mailing Lists."

Single-unit companies—The mailing lists for single-unit companies (those operating at only one location) were developed from an initial control file assembled from IRS and SSA records. Out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiunits in the multiunit directory were removed.

The final step was to identify the small companies to which forms were not to be mailed because census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-unit companies.

General schedule—While these lists generally contained adequate industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-9923, General Schedule was mailed to these companies. Since it was assumed that these companies were quite small, only the dollar volume of business was requested. The completed reports were coded and included in the tabulations. If form NC-9923 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

9. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The prec canvass and other special procedures for multiunit companies described in item 8, Mailing Lists, and item 11, Data Collection, were designed to secure complete lists of establishments, thereby amplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiunit companies, were also used to verify the completeness of establishment coverage.

Comparison of statistics tabulated from the census of mineral industries with data originating with other agencies was possible, in many instances, thus providing a further confirmation of completeness and accuracy. In the industry reports, differences between the census of mineral industries and other statistics are explained wherever possible. Census of mineral industries' comparability with broad measures (such as national income, new capital expenditures, and production indexes) is discussed elsewhere in this introduction. The Bureau of the Census' other procedures designed to improve the accuracy of the census data are discussed below in the items on data collection and processing.

10. GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the minerals census data by State and county. Prior to the census, the mailing address information was matched by computer to geographic reference files in order to assign geographic codes. The reference files were the Address Reference File, which contained about 2.2 million street and building records with their associated ZIP, State, county, and place codes, and the City Reference File, which contained over 90,000 possible combinations of post office names, State abbreviations, and ZIP codes with their related State, county, and place codes.

The computerized geographic coding system assigned codes to each establishment by matching the street address to the Address Reference File whenever possible. If this was not possible, geographic codes were assigned by matching the post office name, State, and ZIP code to the City Reference File. Computer file flags were assigned to indicate how confident we were of the codes assigned. Large establishments with low confidence codes were researched clerically.

As in previous censuses, a post office box address or ZIP code of the establishment were not accepted as defining the physical location. Respondents were requested to check the address labels on the questionnaires and if incorrect or with a nonphysical location address (such as post office box) to provide the following information; street address, place (post office name), State abbreviation, ZIP code, county name, type place, and whether the establishment was located inside or outside the legal boundaries of the place. Any changes and corrections that were returned were noted and geographically coded accordingly.

Because of the unique establishment definitions in mineral industries and the rural locations of mining establishments in general, geographic coding is particularly difficult. In these cases, the name or number of the nearest highway and the distance from the nearest town or urban place was requested.

11. DATA COLLECTION

Although the greater use of administrative records in 1982 substantially reduced the number of companies canvassed directly, there remained over 2 million that were required to file, including about 25,100 mineral operations; small mineral operators for whom the administrative records sufficed numbered about 10,800. The assembly of several hundred different questionnaires into mailing packages was an extensive operation.

Most of the 1982 questionnaires were mailed by late December 1982 with a due date of February 15, 1983. The collection phase was completed by late August 1983. Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. In all, there were five mail followups. Telephone calls were made to the large companies to help with reporting problems and to request that the forms be completed and returned.

Estimates based on data from administrative records were included in the census tabulations for the relatively small number that had not responded by the closeout date in August 1983. Thus, reported or estimated data for all companies and establishments in the original mailing list (except those determined to be inactive during 1982) were included in the final statistical results. A special effort was made to obtain actual returns from all large firms, so that the dollar volume of business represented by proxy returns was relatively small.

12. DATA PROCESSING

General—The editing,¹² coding, and tabulation of data for the six million establishments represented in the 1982 economic censuses was a complicated task. Automated data processing and other advanced techniques were used in all phases.

¹²In data processing, the term "editing" means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.

The questionnaires were mailed from and returned to the Bureau of the Census office at Jeffersonville, Indiana, where most noncomputer (that is, clerical) processing operations were performed. Data were placed on a key-to-disc system, and the encoded data sent to Washington on a high-speed transmission system. The Washington, D.C. staff handled computer operations and all operations in connection with the use of IRS and SSA records.

Preliminary processing—After they were checked in, the questionnaires were keyed and subjected to simple edits to see that they conformed to certain minimum requirements before further processing. For multiunit companies, the sums of employment and payroll reported on its establishment questionnaire were compared with the control totals received on IRS form 941. Questionnaires received from single-unit firms were reviewed to ascertain whether they had become multiunits through merger

or acquisition. Questions arising in these operations were resolved by writing or telephoning the respondents. Complex problems were referred to the Washington, D.C. professional staff.

Computer editing—As in the 1977 Census of Mineral Industries, most of the checks for consistency among data items and completeness was done on the computer. Average values and tolerance limits for key operating ratios (for example, cost of materials per dollar of shipments, payroll per employee, production worker wages per hours worked, etc.) played a fundamental role in the editing process.

A detailed description of the step-by-step processing procedures appears in the Bureau of the Census publication, History of the 1982 Economic Censuses. This volume describes the procedures followed in both the centralized overall processing and in the individual censuses such as mineral industries.

III. Comments On Statistical Measures And Tables

(Explanations and definitions of the various measures of activity for which statistics are compiled in the census of mineral industries are presented in appendix A. In the following text, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.)

13. ESTABLISHMENTS DURING THE YEAR AND AT THE END OF THE YEAR

The establishment data shown as "Establishments During Year" in the tables represent all establishments of companies with one-paid employee or more that have production, development, or exploration activities at any time during the year. Also included are separately operated auxiliary establishments. Of the approximately 73,000 establishments with such activities during the year, 70,400 or 96 percent of them were also operating at the end of the year.

14. EMPLOYMENT AND PAYROLL IN AUXILIARIES

Employment, payroll, and establishment counts of auxiliaries are included in all tables of the census of mineral industries. Tables 9 and 10 of this report show employment and payroll data separately by industries and States.

15. SUPPLIES CONSUMED

Every establishment was requested to report the total cost of supplies. In addition, quantity and cost information was collected for approximately 50 specific supplies. Supplies were generally collected only in those industries in which the supplies were important inputs. Detailed consumption information was collected in item 17B of the questionnaire, the standard supplies inquiry. The resulting statistics are presented mainly in table 7a of the industry reports.

In using the detailed data on supplies consumed, the following limitations should be noted:

- a. Supplies were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the

industry total for supplies appearing in tables 7a of the industry reports includes consumption in secondary products as well as primary products of the industry. The extent of secondary production in each industry is shown in table 8 of this report.

- b. Special attention should be paid to the codes ending in "000" and captioned "Undistributed minerals, purchased machinery, parts, attachments and supplies used." The amounts appearing on these lines are totals imputed for (1) establishments whose statistics were developed from administrative records, (2) establishments whose reports were not received at the time the data was tabulated, and (3) totals for establishments that returned report forms but failed to report their consumption in specific terms. Thus, for most industries, the data for specific supplies are understated. A judgment on the statistical significance of the understatement may be made from the ratio of the value shown for the "not specified by kind" (code 000) to the total of selected supplies, minerals received for preparation, and purchased machinery installed for the industry.
- c. Establishments consuming less than a specified amount of a supply were not requested to report consumption of the supply separately. For the majority of individual supplies, the minimum amount was \$25,000. The use of this cutoff is not believed to have had a significant effect on the totals; in 1977 a lower cutoff of \$10,000 was used.
- d. A total of "not elsewhere classified" (n.e.c.) supply code 970099 was collected on most forms and is published for each industry. This is the total cost of supplies for an industry for which no supply items were prelisted on the form.

16. VALUE OF SHIPMENTS AND RECEIPTS

Value of shipments of multiunit companies—Respondents were instructed to report net selling values, f.o.b. mine, well, or plant, after discounts and allowances and excluding freight charges and excise and sales taxes. Multiunit companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value. Full economic value is defined as not only the cost of production but also a reasonable proportion of company overhead and profits. Generally, there is no advertising or other selling cost assigned by companies to interplant transfers, so it would be expected that the value per unit of such transfers would be less than that for commercial sales. To assure consistency in the valuation as the interplant transfer moved through the company, the plant receiving the transferred goods was instructed to include them in its cost of materials at the same value as at the shipping point plus the cost of freight and other handling charges.

Individual products—In the 1982 census program, information was collected on the output of 194 individual product items.¹³ A "product" as used in the census of mineral industries is the finest level of detail for which output information was requested. It is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and in other cases it is more aggregative. If detailed production figures are available from other government sources or reliable private surveys, it was not considered necessary to request extensive detail in the census. Frequently, large aggregative values at the products level indicated that detailed production figures were available from other statistical programs.

Typically, both quantity and value of shipments were collected. However, physical quantity measures are not meaningful for some product lines, and for these, only value of shipments was collected. If a product was used to a large degree in the fabrication of other products within the same establishment in which it was produced, total quantities produced and often the quantities consumed were collected. Information on production, as well as shipments, was also collected for products for which there are significant differences between the two in a given year.

Classes of products—The individual products were aggregated into classes of products which were, in turn, grouped into all primary products of each industry. In the code structure, a seven-digit number is assigned to the individual product, a 5-digit code to the class of product, and a four-digit code to the total primary products in an industry. (See item 4 for application of coding structure to the assignment of SIC codes for establishments.)

The 194 product items in the 1982 census were grouped into 87 separate product classes. General similarity was the basis for the product class combinations within each four-digit industry, i.e., kind or use of the products. The economic significance of the class was also taken into account; residual products of an industry were grouped when the dollar value of the products did not warrant separate classes.

Effect of use of administrative records on product data—As noted elsewhere in this Introduction, approximately 10,800 small mining companies were not mailed report forms and most of their

detail was imputed based on limited information in IRS and SSA administrative records used in conjunction with industry averages and other information. All of the value of products of these small establishments were coded only to the four-digit products of the industry in which they were classified. These product shipments are uniquely identified in table 6 of the industry reports. Also included are product shipments of reporting companies that were described too generally to code below the four-digit level. Frequently, these were residuals in the company's records which the company felt it could not further break down.

One factor tends to reduce the value of products, n.s.k., attributed to administrative record companies. In some four-digit industries, there is only one product category (an example is Industry 1422, Crushed and Broken Limestone). Administrative-record estimates for these products were treated as specific information and not published as "n.s.k."

In using the data for the specific seven-digit products shown in table 6 of the industry reports, the importance of the "n.s.k." has to be considered. The shipments of individual products tend to be understated somewhat in proportion to the size of the "n.s.k." Census-to-census comparison of seven-digit products should be made with caution if there has been a significant increase or decrease in the importance of the "n.s.k."

17. VALUE ADDED BY MINING

General—Value added is computed by subtracting the cost of supplies, purchased fuels, and electric energy, contract work, purchased machinery installed, and minerals received from other establishments and used in mineral production from the value of shipments and receipts plus capital expenditures. This measure avoids the duplication in the value of shipments and receipts that results from the use of products of some establishments as supplies, energy sources, or materials by other establishments. Moreover, it provides a measure of value added in mineral production, but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

"Value of shipments and receipts," used in this calculation, includes the shipments of all products of the mining establishment, together with receipts for work done for others. "Capital expenditures" includes expenditures for development of mineral properties as well as for new construction and major alterations of preparation plants and other structures and expenditures for new and used machinery and equipment. The "costs" used in this calculation include costs charged to both the current and capital accounts. Both the shipments and costs figures include products bought and resold in the same condition.

Value added and gross national product—The measure of value added produced by the Bureau of the Census differs from the estimate of gross product originating (GPO) in mining, which is included in the U.S. national income and product accounts, prepared by the Bureau of Economic Analysis (BEA) of the Commerce Department. As explained below, these measures are conceptually and statistically different.

Recall that Census value added is calculated as the value of shipments and receipts plus capital expenditures, less the cost of supplies used in exploration, development, and production. The cost of purchased services is not excluded from this value.

¹³See 1982 Census of Manufactures and Census of Mineral Industries, MC82-R-1, Numerical List of Manufactured and Mineral Products.

On the other hand, GPO in mining is that industry's share of the Nation's output of goods and services valued at market prices before deductions for depreciation charges. It is calculated either as (1) the sum of income payments—for example, wages, profits, and interest—and other costs—e.g., depreciation and indirect business taxes, or as (2) the difference between the value of production and the cost of materials and services used in production. GPO differs from the census value added not only because the BEA measure excludes purchased services, but also because it includes sales and excise and other indirect business taxes other than property taxes, and reflects inventory change valued at replacement cost. These differences arise because the Census Bureau does not collect data for all purchased services, defines shipments to exclude excise and sales taxes, and calculates inventory change using data as reported by the mining establishment. The BEA adjusts inventories of establishments as reported to the Census Bureau with a relevant inventory valuation adjustment (IVA) factor, which converts them to a replacement cost valuation to make them consistent with the definition of gross national product.

A direct reconciliation of the Census value added and GPO measures is not possible for a number of reasons. For example, of the three differences mentioned above, the GPO measure provides separate estimates of only the taxes and the IVA. Estimates of purchased services are not available because the BEA calculates GPO using the sum of income payments and costs method. Furthermore, the different sources of data used by the Census Bureau to compute value added and by the BEA to estimate GPO give rise to statistical differences between the two series, especially at the more detailed industry levels. Some of the income and cost components of GPO are available only on a consolidated company-industry basis and must be converted to an establishment-industry basis. Profits and depreciation, which are based on tabulation of income tax returns, also are converted by BEA. However, because current income tax data are not available and because of problems with the conversion procedures used by BEA, the resulting establishment-industry distributions may have significant errors, especially at the two-digit SIC industry levels. For net interest, another component of GPO derived from tax return information, no such conversion is attempted. Another statistical difference, which is a major factor at the two-digit industry levels, is the industry classification underlying the estimates of wages and salaries. Census collects wages and salaries directly from employers, while the BEA uses Bureau of Labor Statistics (BLS) tabulations of wages paid to employees covered by unemployment insurance. While both systems use the SIC as the basis of classification, differences arise because Census and BLS use different information upon which to base the classification of individual establishments. Finally, the BEA measure includes the GPO of nonemployer firms. These firms, which are not covered in the Census of Minerals, are usually very small and do not constitute a significant share of GPO.

18. CAPITAL EXPENDITURES AND GROSS ASSETS

Capital expenditures—Under this heading, mining establishments were instructed to report expenditures of the type chargeable to fixed assets accounts, for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year. Included in such

expenditure totals are expenditures for development and exploration of mineral properties. Excluded are cost of maintenance and repair charged to current operating expense, and cost of land and mineral rights.

The Bureau of the Census estimates of capital expenditures tend to be lower than those published by the Bureau of Economic Analysis. The major source of difference results in the scope of the two series. Census data relate only to mining establishments, whereas the BEA-SEC series relating to mining includes all establishments of mining companies, nonmining as well as mining, but excludes mining establishments of companies that they have classified as chiefly nonmining.

Gross value of fixed assets—In addition to reporting capital expenditures during the year, assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained, along with depreciation and/or depletion and retirements during the year. As the Census capital expenditure series differs from the BEA series, so the Census gross asset series will differ from similar series based on company level reports, i.e., those appearing in the IRS Statistics of Income and the Bureau of the Census Quarterly Financial Report of Corporations. (See appendix A for more complete definition of terms.)

19. INVENTORIES

The value of end-of-year inventories held by each mining establishment was obtained for 1981 and 1982. For the majority of the mineral industries, separate information was requested for—

- a. mined or quarried products and
- b. supplies, parts, fuels, etc.

A measure of the changes in mined or quarried product inventories from the beginning to the end of each is essential to the conversion of value of shipments during the year to value of production. The ratios of inventories to shipments at different times are also used in analysis of trends and business-cycle movements. For the best use of all of these measures, the inventories should be valued in the same prices as the shipments are valued.

The inventories as collected in 1977 have been the inventories as carried in the books of each respondent. Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census when respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.

In using inventory data by stage of production for all industries at the industry level, it should be noted that an item treated as a mined or quarried product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. Such differences are present in the inventory figures by stage of production shown for individual industries, industry groups, and "all mining" which are merely aggregates of figures reported by establishments in specified industries.

20. SUBJECT REPORTS

The subject reports include tables representing summaries of rearrangements of data appearing in the industry and area reports. The following reports are included in the subject series:

General Summary—This report provides summary tabulations of data presented in greater detail in other census tables.

Water Use in Mining—This report presents results of a survey of 1983 consumption of water in establishments consuming 20 million gallons or more during the 1982 census year. A more detailed description of data and definitions of terms employed is given in the introduction to the report.

Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments—This report summarizes the expenditures and assets data published in tables 3a and 3b of the industry reports. An explanation is given in appendix A.

Fuels and Electric Energy Consumed—This report provides a consolidated presentation of energy consumption in the mineral industries.

The subject reports "Type of Operation", "Type of Organization", and "Size of Establishment" published in previous censuses, will not be published in the 1982 series. Selected tables from these reports have been incorporated into the "General Summary."

21. CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. However, the number of companies classified in a given industry is not considered a disclosure, so this item may be given even though other information is withheld. In suppressing figures to avoid disclosing information of individual companies, individual States are given precedence over geographic regions and divisions. This change was initiated in 1977. In prior censuses, the large geographic areas were given precedence. As a result of this change in philosophy, it has become more difficult to produce industry detail for the larger geographic areas and data for these areas are no longer published. States are given precedence over counties.

In tables showing industry detail, major industry group (two-digit) totals take precedence over industry group (three-digit) totals which, in turn, take precedence over individual (four-digit) industries. Similarly, in product tables, four-digit product groupings take precedence over five-digit product classes and the latter over individual seven-digit products.

Such order of precedence was used because:

- a. It was considered preferable to show State data for an industry, even at the cost of withholding data for a region. In recent years, there seemed to be more need for and use of data for individual States than for the larger regions—especially since many regional development programs encompassed clusters of States different from the standard regions and divisions.

Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

- b. By giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. Whenever the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line has been suppressed. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

22. MICROFICHE

All data in the final reports are available on microfiche. Microfiche reports are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

23. SPECIAL TABULATIONS

Public-use tapes are not available for 1982 Census of Mineral Industries data. However, special tabulations of data collected may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (such as name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

24. ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "l. tons."

General Summary

CONTENTS

[Page numbers listed here omit the prefix that appears as part of the number for each page]

	Page
Introduction	III

TABLES

1. Historical Statistics: 1982 and Earlier Census Years	2
2. Statistics for Industry Groups and Industries: 1982 and 1977	2
3. Statistics for States and Offshore Areas: 1982 and 1977	3
4. Statistics by Major Group: 1982 and Earlier Census Years	4
5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977	5
6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982	14
7. Summary Statistics by Major Group and Industry: 1982	22
8. Industry Shipments and Receipts and Net Shipments of Primary Products by Industry: 1982	30
9. Employment at Auxiliaries and Related Facilities by Industry Group and Industry: 1982 and 1977	31
10. Employment at Auxiliaries and Related Facilities for Selected States: 1982 and 1977	32
11. Number of Mineral Establishments by Employment Size, Industry Group, and Industry: 1982	33
12. Number of Mineral Establishments by Employment Size for States and Offshore Areas: 1982	34
13. Industry Statistics by Employment Size of Establishment: 1982	35
14. Selected Statistics by Type of Operation and Industry: 1982	36
15. Selected Statistics by Type of Operation for States and Offshore Areas: 1982	40
16. Selected Statistics for Nonproducing Establishments by Industry Group and Industry: 1982 and 1977	43

APPENDIXES

A. Explanation of Terms	A-1
B. Industry Descriptions	B-1
C. Authority for Census: Title 13, United States Code	C-1
D. Alphabetic Index of Products and Services of Mineral Establishments	D-1
E. Reporting Forms	E-1

Publication Program	Inside back cover
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Table 1. Historical Statistics: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹	273 005	210 271	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8
1977 ¹	31 359	6 632	798.8	13 166.8	592.8	1 183.3	9 082.3	68 013.1	46 079.4	96 374.7	17 718.0
1972 ¹	25 269	5 312	595.1	6 225.5	442.9	909.0	4 250.2	26 470.6	14 884.0	36 318.6	5 035.9
1967 ¹	28 579	5 682	567.3	4 186.8	432.6	892.0	2 888.2	19 330.2	10 576.2	³ 422 783.6	4 057.8
1963	38 651	5 499	615.6	3 742.5	481.5	973.0	2 679.5	15 910.0	8 974.0	³ 18 804.4	3 263.6
1958	36 392	6 045	733.9	3 749.0	565.4	1 080.5	2 623.0	13 385.2	7 521.0	³ 16 373.1	2 804.1
Excluding oil and gas extraction industries:											
1982 ¹	12 494	3 457	429.1	10 944.1	328.2	639.3	7 997.1	28 118.4	20 327.7	42 908.9	5 537.3
1977 ¹ ⁵	13 520	3 645	459.2	7 386.3	371.0	708.4	5 635.2	19 903.8	14 511.8	29 636.5	4 779.4
1972 ¹ ⁵	11 680	3 100	368.9	3 808.5	302.2	616.0	2 959.1	9 258.3	5 508.0	13 184.1	1 582.0
1967 ¹ ⁵	13 330	3 190	338.4	2 419.4	280.5	575.7	1 878.0	6 227.1	3 580.8	(NA)	1 056.4
1963 ⁵	19 290	3 026	365.5	2 098.3	309.8	616.5	1 680.1	5 211.5	3 021.1	³ 6 787.1	715.9
1958 ⁵	19 444	3 603	442.0	2 134.9	371.2	679.2	1 691.2	4 652.9	2 785.7	³ 6 071.9	612.6

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See introduction for further explanation.

³Represents net value of shipments and receipts.

⁴Includes gross shipments for ferroalloy ores and metallic ores, n.e.c. In 1963, difference between gross and net shipments for these industries was about \$7.6 million.

⁵Includes data for mining operations at manufacturing locations.

Table 2. Statistics for Industry Groups and Industries: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All mineral industries	73 005	10 271	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8	798.8	68 013.1
10	Metal mining	1 515	328	68.1	1 860.3	46.8	89.7	1 222.2	3 214.4	3 233.7	5 287.2	1 160.9	87.6	3 503.9
1011	Iron ores	78	40	11.7	339.8	7.0	12.6	201.2	770.3	706.7	1 414.3	62.7	19.3	1 046.4
1021	Copper ores	81	51	21.9	603.6	15.9	29.6	428.4	671.7	1 301.5	1 550.6	422.6	33.1	1 066.7
1031	Lead and zinc ores	71	28	4.3	111.8	2.9	5.8	71.1	200.6	174.5	318.3	56.8	7.1	329.1
104	Gold and silver ores	371	80	10.4	262.7	7.4	14.8	180.8	649.7	329.1	741.4	237.5	4.6	161.1
1041	Gold ores	286	59	7.7	187.9	5.2	10.2	119.6	479.2	246.4	521.1	204.5	2.6	78.2
1044	Silver ores	85	21	2.6	74.8	2.2	4.5	61.2	170.6	82.7	220.3	33.0	2.0	82.9
1051	Bauxite and other aluminum ores ..	8	4	.3	9.3	.2	.4	5.7	15.4	19.5	29.5	5.4	.4	31.0
1061	Ferroalloy ores, except vanadium ..	69	16	4.7	149.8	3.0	5.7	88.1	145.8	169.2	205.5	109.5	6.4	255.6
1081	Metal mining services	394	22	2.5	60.6	1.8	3.8	42.3	89.5	62.6	125.4	26.8	3.3	111.6
109	Miscellaneous metal ores	443	87	12.3	322.7	8.4	17.0	204.5	671.4	470.6	902.3	239.7	13.5	502.4
1094	Uranium-radium-vanadium ores ..	215	71	10.5	285.4	7.1	14.4	178.7	578.8	420.2	775.1	223.9	12.0	431.6
1092	Mercury ores and metallic ores, n.e.c.	228	16	1.8	37.3	1.3	2.7	25.8	92.5	50.4	127.2	15.8	1.5	70.8
1099														
11	Anthracite mining	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3	3.6	123.0
111	Anthracite mining	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3	3.6	123.0
1111	Anthracite	152	40	3.4	66.9	2.9	5.5	55.7	171.7	137.7	286.6	22.9	3.3	116.0
1112	Anthracite mining services	21	1	.1	2.1	.1	.2	1.7	4.7	2.5	6.7	.5	.3	7.1
12	Bituminous coal and lignite mining	5 005	1 856	247.7	6 736.3	198.3	380.3	5 187.6	18 454.7	13 005.3	28 260.7	3 199.2	241.7	11 143.3
121	Bituminous coal and lignite mining	5 005	1 856	247.7	6 736.3	198.3	380.3	5 187.6	18 454.7	13 005.3	28 260.7	3 199.2	241.7	11 143.3
1211	Bituminous coal and lignite	4 513	1 767	240.9	6 570.1	192.8	369.5	5 055.6	18 041.2	12 795.5	27 695.4	3 141.3	235.2	10 837.1
1213	Bituminous coal and lignite mining services	492	89	6.8	166.1	5.6	10.8	132.0	413.4	209.7	565.3	57.9	6.5	306.2
13	Oil and gas extraction	60 511	6 814	684.5	17 693.3	434.0	938.6	10 033.0	159 936.6	89 369.6	207 090.7	42 215.5	349.2	48 587.0
1311	Crude petroleum and natural gas ..	27 558	1 994	264.2	8 084.3	102.3	213.6	2 724.7	126 035.2	43 214.9	134 969.4	34 280.8	139.7	38 327.1
1321	Natural gas liquids	793	236	14.2	401.9	11.6	24.3	323.4	8 864.8	33 276.0	41 009.6	1 131.1	13.0	3 286.3
138	Oil and gas field services	32 160	4 584	406.1	9 207.2	320.0	700.7	6 984.9	25 036.6	12 878.7	31 111.7	6 803.6	196.4	6 973.6
1381	Drilling oil and gas wells	10 123	1 810	165.5	4 006.7	139.1	295.9	3 240.6	11 315.6	6 687.8	13 797.8	4 205.7	79.4	3 306.9
1382	Oil and gas field exploration services	4 228	389	41.8	809.5	33.3	73.1	621.7	2 306.4	1 044.8	2 960.4	390.8	17.8	545.2
1389	Oil and gas field services, n.e.c.	17 809	2 385	198.9	4 391.0	147.7	331.6	3 122.6	11 414.6	5 146.1	14 353.6	2 207.1	99.3	3 121.6

Table 2. Statistics for Industry Groups and Industries: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group and industry	1982										1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
14	Nonmetallic minerals, except fuels -----	5 801	1 232	109.8	2 278.5	80.1	163.5	1 529.9	6 273.0	3 948.6	9 067.7	1 153.9	116.9	4 655.9
1411	Dimension stone -----	154	21	1.5	21.2	1.2	2.1	16.0	50.2	16.8	63.8	3.3	1.9	38.5
142	Crushed and broken stone, including riprap -----	1 932	567	36.8	700.9	28.2	57.2	493.6	1 787.2	1 053.5	2 571.5	269.3	40.9	1 501.1
1422	Crushed and broken limestone -----	1 314	378	25.8	497.9	19.8	40.0	350.6	1 228.7	712.1	1 756.1	184.7	29.1	1 002.9
1423	Crushed and broken granite -----	189	90	4.5	76.7	3.7	7.6	56.7	259.0	164.2	384.2	39.1	4.4	192.0
1429	Crushed and broken stone, n.e.c. -----	429	99	6.5	126.4	4.8	9.6	86.4	299.6	177.1	431.2	45.5	7.4	306.2
144	Sand and gravel -----	2 758	343	27.8	520.4	20.6	41.6	379.6	1 335.6	752.9	1 877.2	211.3	30.5	1 016.7
1442	Construction sand and gravel -----	2 552	275	23.4	437.2	17.4	34.9	324.5	1 112.1	593.6	1 535.3	170.4	25.9	861.4
1446	Industrial sand -----	206	68	4.3	83.2	3.2	6.6	55.1	223.5	159.3	341.9	40.9	4.7	155.2
145	Clay, ceramic, and refractory minerals -----	224	97	10.5	212.0	7.5	16.0	138.9	509.8	484.4	886.9	107.3	10.0	358.1
1452	Bentonite -----	33	16	1.4	27.9	.9	1.7	16.3	63.8	55.8	106.9	12.7	1.3	56.1
1453	Fire clay -----	33	5	.4	7.3	.3	.7	5.1	17.0	14.1	28.0	3.0	.4	26.5
1454	Fuller's earth -----	13	10	1.3	19.6	.9	2.0	12.2	53.4	37.1	80.9	9.6	1.1	27.8
1455	Kaolin and ball clay -----	49	37	5.3	119.5	3.9	8.4	77.8	301.5	298.1	529.5	70.1	4.7	185.7
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	96	29	2.1	37.8	1.6	3.3	27.4	74.1	79.3	141.5	11.9	2.5	62.0
147	Chemical and fertilizer mineral mining -----	196	114	25.6	680.7	16.4	34.5	394.6	2 237.2	1 416.8	3 134.9	519.1	24.3	1 433.3
1472	Barite -----	41	13	1.1	22.4	.9	2.0	18.5	81.4	61.7	114.9	28.2	.8	45.0
1473	Flourspar -----	8	3	.3	5.6	.2	.5	3.9	10.9	(D)	18.8	(D)	.7	12.7
1474	Potash, soda, and borate minerals -----	37	28	10.5	310.5	7.2	15.1	192.2	954.3	569.4	1 290.8	232.9	9.4	562.8
1475	Phosphate rock -----	48	33	7.8	179.6	4.8	9.4	99.1	732.5	538.3	1 047.7	223.0	7.7	439.7
1476	Rock salt -----	30	18	2.9	67.3	1.7	3.9	37.1	148.3	54.5	183.4	19.4	2.7	135.4
1477	Sulfur -----	20	16	2.6	84.5	1.3	2.8	37.1	288.2	159.9	441.0	7.2	2.7	234.5
1479	Chemical and fertilizer mineral mining, n.e.c. -----	12	3	.5	10.8	.4	.7	6.7	21.6	(D)	38.4	(D)	.3	3.1
1481	Nonmetallic minerals services -----	222	18	1.6	34.6	1.3	2.6	25.9	70.4	36.9	100.7	6.6	2.2	69.9
149	Miscellaneous nonmetallic minerals -----	315	72	6.0	108.6	4.8	9.6	81.4	282.5	187.2	432.7	37.0	7.0	238.3
1492	Gypsum -----	30	4	.3	6.2	.2	.4	3.7	20.5	5.9	22.9	3.5	.4	19.1
1496	Talc, soapstone, and pyrophyllite -----	27	16	1.1	19.0	.8	1.7	13.0	43.6	33.6	67.9	9.4	.9	34.8
1499	Miscellaneous nonmetallic minerals, n.e.c. -----	258	52	4.6	83.4	3.8	7.5	64.7	218.3	147.7	341.9	24.1	5.6	184.4

Table 3. Statistics for States and Offshore Areas: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area	1982										1977		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
United States -----	73 005	10 271	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8	798.8	68 013.1
Alabama -----	596	115	15.9	375.0	12.6	23.4	267.9	1 979.7	1 041.7	2 428.5	592.8	14.1	786.9
Alaska -----	236	88	13.4	524.8	9.1	21.2	327.0	14 093.2	2 931.0	13 782.5	3 241.7	5.5	1 215.9
Arizona -----	291	54	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2	21.0	750.9
Arkansas -----	862	58	5.4	115.3	4.1	8.8	86.5	1 015.1	401.2	1 201.2	215.0	4.7	394.9
California -----	2 196	491	51.3	1 466.2	30.8	63.6	764.1	11 844.3	5 236.7	13 643.0	3 438.1	34.8	3 551.6
Colorado -----	2 424	399	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3	22.7	1 179.1
Connecticut -----	96	24	1.9	67.6	.6	1.2	12.7	47.3	23.7	65.4	5.6	1.2	24.3
Delaware and District of Columbia -----	34	3	.2	5.7	(Z)	.1	.5	2.2	1.1	3.0	.2	(1)	(1)
Florida -----	376	76	10.5	216.0	7.7	15.8	148.5	1 860.4	1 237.0	2 775.5	321.9	9.9	1 038.9
Georgia -----	210	73	7.6	142.2	6.0	12.9	106.6	430.1	374.2	722.8	81.5	7.4	294.1
Hawaii -----	12	4	.2	3.8	.1	.2	2.6	9.7	5.9	12.8	2.7	.1	8.1
Idaho -----	191	30	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6	3.3	144.1
Illinois -----	1 682	199	31.3	845.1	23.1	46.2	596.4	2 543.9	1 576.6	3 607.8	512.7	25.8	1 162.7
Indiana -----	711	98	10.3	269.1	7.6	15.8	192.7	785.8	460.0	1 155.8	90.0	8.4	391.7
Iowa -----	216	26	2.1	38.2	1.6	3.3	27.4	103.5	66.5	153.1	16.9	2.9	87.6
Kansas -----	4 451	222	19.9	461.2	14.4	30.2	295.2	3 195.7	3 567.5	6 344.7	418.5	12.2	1 134.3
Kentucky -----	2 139	530	54.2	1 371.7	44.9	87.9	1 108.6	4 141.9	3 831.2	7 336.1	637.0	47.8	2 515.3
Louisiana -----	5 606	974	102.4	2 694.4	69.2	154.1	1 703.0	33 117.0	19 953.2	43 786.1	9 284.1	63.1	11 981.1
Maine -----	28	1	.1	2.3	.1	.2	1.6	5.3	2.9	7.7	.4	.3	4.9
Maryland -----	141	30	2.6	58.6	2.0	4.1	42.1	167.3	85.9	223.4	29.8	12.3	179.1

See footnotes at end of table.

Table 3. Statistics for States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area	1982										1977		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Massachusetts -----	118	13	1.1	24.6	.7	1.5	15.2	54.4	29.1	73.5	10.0	1.3	32.2
Michigan -----	941	91	10.7	276.7	7.2	14.7	181.7	1 934.7	980.8	2 659.4	256.1	11.3	938.9
Minnesota -----	170	35	9.2	247.9	5.9	10.1	154.1	598.8	503.8	1 049.3	53.3	11.5	699.2
Mississippi -----	1 374	115	9.6	213.2	7.2	16.0	152.9	1 765.7	933.1	2 156.6	542.2	6.0	507.2
Missouri -----	394	65	7.9	198.0	5.2	10.3	119.8	418.2	266.3	604.4	80.2	8.1	396.2
Montana -----	1 148	87	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2	5.9	560.2
Nebraska -----	434	24	2.3	46.5	1.6	3.3	31.4	246.0	133.5	334.5	45.0	1.8	72.8
Nevada -----	334	53	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1	4.1	152.4
New Hampshire -----	28	3	.3	6.7	.2	.6	5.1	17.3	10.4	25.2	2.5	.2	7.9
New Jersey -----	165	40	3.4	101.8	1.6	3.3	32.0	120.1	77.6	181.3	16.5	3.0	93.3
New Mexico -----	1 581	250	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3	23.5	2 688.7
New York -----	598	70	7.8	204.5	4.3	9.0	88.3	414.7	261.3	576.8	99.2	7.1	217.8
North Carolina -----	179	60	4.0	67.6	2.9	6.1	42.0	198.3	139.1	303.9	33.6	3.7	110.9
North Dakota -----	1 037	103	8.5	226.1	6.6	14.4	171.8	1 999.1	1 330.7	2 229.0	1 100.7	2.5	324.6
Ohio -----	2 196	255	28.9	707.6	21.9	45.2	509.5	2 325.5	1 459.5	3 237.1	547.9	27.6	1 181.1
Oklahoma -----	9 144	1 065	104.1	2 666.6	60.2	128.7	1 342.3	13 274.5	9 694.9	18 447.0	4 522.4	43.5	3 417.7
Oregon -----	216	19	1.8	37.0	1.0	1.9	19.1	60.3	32.6	80.4	12.5	1.3	59.1
Pennsylvania -----	1 905	385	48.0	1 180.2	37.1	70.8	868.2	2 936.8	2 179.0	4 575.6	540.2	51.7	2 166.1
Rhode Island -----	20	2	.2	2.9	.1	.2	2.0	7.3	3.3	9.8	.8	.1	5.0
South Carolina -----	79	26	1.5	24.0	1.2	2.6	17.3	72.2	52.8	108.6	16.4	1.5	47.1
South Dakota -----	143	9	2.3	49.7	1.7	3.1	35.4	115.9	85.0	172.7	28.2	2.4	68.0
Tennessee -----	555	117	9.0	186.1	7.4	14.6	144.3	497.7	396.8	793.1	101.4	9.1	378.1
Texas -----	21 262	2 569	266.8	6 755.5	163.5	351.4	3 656.5	54 452.6	30 257.3	72 462.2	12 247.7	143.4	19 673.9
Utah -----	788	121	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3	16.7	910.7
Vermont -----	46	12	.8	15.1	.5	1.0	8.7	36.1	29.8	57.9	8.0	.7	25.2
Virginia -----	916	279	24.4	532.7	19.4	35.0	407.9	1 466.8	1 482.5	2 677.6	271.7	23.2	1 015.8
Washington -----	242	21	2.8	66.8	2.2	4.5	51.4	161.9	119.0	237.5	43.4	2.0	84.9
West Virginia -----	2 104	502	63.1	1 679.9	52.0	101.4	1 344.9	4 789.8	3 421.4	7 312.9	898.3	69.6	2 820.4
Wisconsin -----	208	24	1.9	38.4	1.4	2.7	27.2	85.8	56.2	131.5	10.4	2.6	87.1
Wyoming -----	2 101	323	34.2	939.6	26.0	54.3	690.4	6 858.8	3 946.7	8 606.9	2 198.7	22.7	2 282.0
Offshore areas not associated with a particular State -----	81	38	5.4	155.7	4.2	9.2	114.5	2 803.4	1 080.9	2 843.5	1 040.8	3.1	243.3
North and Mid-Atlantic Offshore -----	20	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Atlantic Offshore -----	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Northern Gulf of Mexico Offshore -----	41	22	3.2	95.4	2.4	5.4	67.1	2 218.2	706.6	2 191.0	733.9	2.7	232.0
Pacific Offshore -----	11	7	1.3	39.3	1.0	2.2	29.1	488.3	259.5	529.0	218.7	(D)	(D)

¹Data for Delaware and the District of Columbia are combined with Maryland to avoid disclosing data for individual companies.

Table 4. Statistics by Major Group: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Major group and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
METAL MINING											
1982 ¹	1 515	328	68.1	1 860.3	46.8	89.7	1 222.2	3 214.4	3 233.7	5 287.2	1 160.9
1977 ¹	1 206	328	87.6	1 485.4	64.6	128.6	1 032.0	3 503.9	3 005.2	5 369.4	1 139.8
1972 ¹	1 014	285	80.8	852.9	62.9	126.7	621.7	2 381.6	1 535.3	3 515.4	401.5
1967 ¹	1 155	318	70.9	552.4	55.4	113.9	396.1	1 556.6	1 079.4	2 296.2	339.8
1963	1 614	298	77.2	515.2	62.2	125.7	383.7	1 418.2	941.0	2 128.2	230.9
1958	2 351	386	91.6	486.2	70.8	136.2	355.0	1 180.2	861.1	1 826.2	215.1
ANTHRACITE MINING											
1982 ¹	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3
1977 ¹	176	43	3.6	51.0	3.0	5.8	41.2	123.0	113.9	227.2	9.8
1972 ¹	230	51	4.5	35.3	3.8	7.7	29.8	68.4	68.1	129.8	6.7
1967 ¹	403	69	7.2	41.1	6.2	11.6	35.0	82.1	80.3	155.9	6.4
1963	1 069	102	11.8	58.8	10.3	19.5	49.9	120.5	131.1	236.5	15.1
1958	1 248	159	22.8	93.4	20.0	30.9	79.4	164.5	177.2	325.1	16.6
BITUMINOUS COAL AND LIGNITE MINING											
1982 ¹	5 005	1 856	247.7	6 736.3	198.3	380.3	5 187.6	18 454.7	13 005.3	28 260.7	3 199.2
1977 ¹	5 275	1 690	241.7	4 119.8	203.8	367.4	3 302.7	11 143.3	8 379.2	16 708.5	2 814.0
1972 ¹	3 365	1 118	155.1	1 742.3	132.2	261.4	1 436.5	3 685.4	2 405.9	5 394.4	696.9
1967 ¹	4 081	1 056	124.4	926.2	108.9	212.4	776.8	2 009.2	1 269.8	2 944.7	334.3
1963	6 305	1 167	133.8	762.3	118.6	217.6	650.9	1 606.7	1 008.1	2 396.4	218.3
1958	6 940	1 375	187.9	915.1	163.7	268.1	762.1	1 615.7	1 003.6	2 430.9	188.5

See footnotes at end of table.

Table 4. Statistics by Major Group: 1982 and Earlier Census Years—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Major group and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
OIL AND GAS EXTRACTION											
1982 ¹ -----	260 511	26 814	684.5	17 693.3	434.0	938.6	10 033.0	159 936.6	89 369.6	207 090.7	42 215.5
1977 ¹ -----	18 447	3 128	349.2	5 901.5	230.8	492.6	3 559.9	48 587.0	31 694.5	67 337.7	12 943.8
1972 ¹ -----	14 498	2 393	240.6	2 525.0	154.2	318.7	1 393.4	17 612.1	9 471.1	23 627.2	3 456.1
1967 ¹ -----	16 358	2 681	244.9	1 855.1	167.2	346.5	1 091.4	13 394.3	7 066.2	17 455.9	3 004.6
1963-----	21 242	2 448	271.5	1 744.7	192.0	397.3	1 093.0	11 019.8	6 044.4	14 512.5	2 551.7
1958-----	18 522	2 691	312.9	1 700.7	214.0	440.3	1 011.2	9 032.5	4 799.5	11 637.9	2 194.0
NONMETALLIC MINERALS, EXCEPT FUELS											
1982 ¹ -----	5 801	1 232	109.8	2 278.5	80.1	163.5	1 529.9	6 273.0	3 948.6	9 067.7	1 153.9
1977 ¹ -----	6 255	1 443	116.9	1 609.0	90.6	188.8	1 146.4	4 655.9	2 886.7	6 731.9	810.7
1972 ¹ -----	6 162	1 465	114.2	1 070.0	89.4	194.7	768.7	2 723.0	1 403.6	3 651.7	474.8
1967 ¹ -----	6 582	1 559	119.9	812.0	94.8	207.6	588.9	2 288.0	1 080.7	2 996.0	372.7
1963-----	8 421	1 486	121.2	661.5	98.4	212.8	502.0	1 744.8	849.7	2 346.9	247.5
1958-----	7 323	1 436	118.6	553.5	96.8	204.9	415.0	1 391.5	679.5	1 881.1	189.8

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982										1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
10	METAL MINING													
	United States -----	1 515	328	68.1	1 860.3	46.8	89.7	1 222.2	3 214.4	3 233.7	5 287.2	1 160.9	87.6	3 503.9
101	Iron ores -----	78	40	11.7	339.8	7.0	12.6	201.2	770.3	706.7	1 414.3	62.7	19.3	1 046.4
102	Copper ores -----	81	51	21.9	603.6	15.9	29.6	428.4	671.7	1 301.5	1 550.6	422.6	33.1	1 066.7
103	Lead and zinc ores -----	71	28	4.3	111.8	2.9	5.8	71.1	200.6	174.5	318.3	56.8	7.1	329.1
104	Gold and silver ores -----	371	80	10.4	262.7	7.4	14.8	180.8	649.7	329.1	741.4	237.5	4.6	161.1
105	Bauxite and other aluminum ores -----	8	4	.3	9.3	.2	.4	5.7	15.4	19.5	29.5	5.4	.4	31.0
106	Ferroalloy ores, except vanadium -----	69	16	4.7	149.8	3.0	5.7	88.1	145.8	169.2	205.5	109.5	6.4	255.6
108	Metal mining services -----	394	22	2.5	60.6	1.8	3.8	42.3	89.5	62.6	125.4	26.8	3.3	111.6
109	Miscellaneous metal ores --	443	87	12.3	322.7	8.4	17.0	204.5	671.4	470.6	902.3	239.7	13.5	502.4
	Alaska -----	53	10	.9	25.7	.7	1.5	21.6	11.2	38.9	27.8	22.3	BB	(D)
104	Gold and silver ores -----	32	6	.3	9.0	.3	.6	7.2	9.9	(D)	13.5	(D)	AA	(D)
106	Ferroalloy ores, except vanadium --	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
108	Metal mining services -----	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Arizona -----	112	35	14.1	356.2	10.8	19.2	270.3	534.5	651.8	1 053.5	132.9	19.4	681.6
102	Copper ores -----	36	28	13.4	342.8	10.4	18.5	262.8	513.4	639.0	1 024.7	127.7	18.6	660.1
104	Gold and silver ores -----	25	4	.4	6.6	.2	.4	2.9	5.8	7.0	9.5	3.2	(Z)	.5
108	Metal mining services -----	27	2	.2	4.7	.2	.3	3.4	9.1	(D)	12.2	(D)	BB	(D)
	Arkansas -----	10	4	.5	12.1	.3	.6	7.8	18.9	31.6	37.5	12.9	.6	36.4
105	Bauxite and other aluminum ores --	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
109	Miscellaneous metal ores -----	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	California -----	142	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	97.9
101	Iron ores -----	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
104	Gold and silver ores -----	73	8	1.0	21.5	.5	1.1	10.2	35.3	19.7	28.3	26.7	.2	.9
106	Ferroalloy ores, except vanadium --	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
109	Miscellaneous metal ores -----	33	7	BB	(D)	.3	.6	6.2	24.4	16.7	37.8	3.3	BB	(D)
	Colorado -----	205	45	7.3	214.4	4.3	8.3	115.3	326.4	186.3	352.8	159.9	8.2	261.1
104	Gold and silver ores -----	45	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
106	Ferroalloy ores, except vanadium --	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
108	Metal mining services -----	48	2	.3	8.4	.3	.6	6.6	5.8	3.6	8.1	1.3	BB	(D)
109	Miscellaneous metal ores -----	89	19	2.3	61.2	1.6	3.0	38.0	152.1	76.7	119.2	109.6	1.7	25.1
	Connecticut -----	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
102	Copper ores -----	1	1	AA	(D)	-	-	-	-	-	-	-	(D)	(D)
	Florida -----	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
109	Miscellaneous metal ores -----	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	Idaho -----	66	14	1.9	61.1	1.4	3.1	46.6	116.1	54.3	150.2	20.1	2.3	84.1
103	Lead and zinc ores -----	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
104	Gold and silver ores -----	24	10	1.5	47.6	1.2	2.7	39.1	108.7	38.7	129.0	18.3	1.3	62.8
108	Metal mining services -----	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	1.4

See footnotes at end of table.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
10	METAL MINING—Con.													
101	Illinois -----	10	1	.2	3.8	(Z)	(Z)	.1	.6	.7	1.2	.2	(Z)	.9
	Iron ores -----	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
101	Michigan -----	16	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	237.7
	Iron ores -----	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
102	Copper ores -----	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
106	Ferroalloy ores, except vanadium -----	2	1	AA	(D)	-	-	-	-	-	-	-	(NA)	(NA)
101	Minnesota -----	36	16	7.7	216.1	5.0	8.3	137.9	521.3	464.2	944.8	40.7	10.1	654.2
	Iron ores -----	21	15	7.6	213.4	4.9	8.1	135.9	515.8	461.8	937.6	39.9	FF	(D)
101	Missouri -----	24	13	2.6	72.5	1.6	3.2	44.6	169.4	110.7	239.1	41.0	3.4	245.3
	Iron ores -----	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
103	Lead and zinc ores -----	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
102	Montana -----	53	10	1.5	42.1	1.1	2.3	30.8	104.1	113.9	143.8	74.2	EE	(D)
	Copper ores -----	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
104	Gold and silver ores -----	19	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	1.1
104	Nevada -----	154	26	3.6	88.5	2.8	5.8	67.0	274.7	138.3	342.1	70.9	2.7	82.3
	Gold and silver ores -----	51	16	2.8	68.6	2.3	4.7	54.9	236.1	(D)	308.1	(D)	.4	38.2
106	Ferroalloy ores, except vanadium -----	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
108	Metal mining services -----	54	5	.3	6.3	.2	.5	4.7	10.2	6.6	15.4	1.3	.2	6.9
109	Miscellaneous metal ores -----	35	2	.3	4.3	.2	.3	2.7	11.4	3.3	13.4	1.3	(D)	(D)
	New Jersey -----	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
102	New Mexico -----	85	23	5.2	140.9	4.1	8.3	105.7	223.8	471.0	366.5	328.3	8.7	337.5
	Copper ores -----	7	4	1.0	28.7	.8	1.5	22.5	29.2	(D)	87.7	(D)	EE	(D)
104	Gold and silver ores -----	12	4	.2	4.2	.2	.3	3.4	20.4	(D)	25.6	(D)	(Z)	.4
106	Ferroalloy ores, except vanadium -----	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
108	Metal mining services -----	23	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	21.2
109	Miscellaneous metal ores -----	38	13	2.9	80.8	2.3	4.9	57.3	156.3	(D)	244.3	(D)	5.2	201.4
102	New York -----	26	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	43.5
	Copper ores -----	4	4	.8	33.1	-	-	-	-	-	-	-	.7	-
103	Lead and zinc ores -----	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
104	Gold and silver ores -----	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores -----	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
101	Ohio -----	14	4	.8	25.9	.1	.1	1.2	6.6	3.9	7.8	2.7	CC	(D)
	Iron ores -----	3	3	.7	24.1	-	-	-	-	-	-	-	CC	(D)
	Oklahoma -----	11	3	.1	3.4	.1	.1	1.1	6.2	1.6	6.8	1.0	.2	.9
	Oregon -----	30	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
103	Pennsylvania -----	22	4	.4	10.0	.3	.5	5.4	10.3	8.6	18.3	.6	.9	23.1
	Lead and zinc ores -----	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
104	South Dakota -----	10	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Gold and silver ores -----	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
102	Tennessee -----	14	9	1.5	32.9	1.2	2.6	25.2	36.1	64.8	90.4	10.5	1.5	42.5
	Copper ores -----	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
103	Lead and zinc ores -----	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	19.8
101	Texas -----	72	14	1.8	44.9	1.1	2.3	26.3	87.6	58.0	117.8	27.7	.9	30.2
	Iron ores -----	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
108	Metal mining services -----	13	1	.1	2.1	.1	.2	1.8	4.5	2.5	6.3	.7	.1	6.2
109	Miscellaneous metal ores -----	34	8	1.4	36.1	.8	1.8	21.7	67.1	49.2	91.7	24.6	CC	(D)
102	Utah -----	105	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.0	274.2
	Copper ores -----	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
104	Gold and silver ores -----	15	1	.1	2.6	.1	.1	1.3	37.7	(D)	3.7	(D)	BB	(D)
108	Metal mining services -----	22	2	.1	3.3	.1	.2	1.9	4.8	2.5	6.7	.6	BB	(D)
109	Miscellaneous metal ores -----	41	5	.7	17.8	.5	1.0	12.7	15.0	46.3	53.2	8.0	CC	(D)
	Virginia -----	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
104	Washington -----	39	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Gold and silver ores -----	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores -----	13	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
101	Wisconsin -----	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Iron ores -----	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
101	Wyoming -----	71	19	2.7	74.7	2.1	4.1	55.2	190.6	109.4	277.4	22.6	4.3	193.4
	Iron ores -----	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
109	Miscellaneous metal ores -----	36	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	151.7
11	ANTHRACITE MINING													
111	United States -----	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3	3.6	123.0
	Anthracite mining -----	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3	3.6	123.0
111	Pennsylvania -----	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3	3.6	123.0
	Anthracite mining -----	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3	3.6	123.0

See footnotes at end of table.

Table 5. **Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
12	BITUMINOUS COAL AND LIGNITE MINING													
121	United States ----- Bituminous coal and lignite mining -----	5 005 5 005	1 856 1 856	247.7 247.7	6 736.3 6 736.3	198.3 198.3	380.3 380.3	5 187.6 5 187.6	18 454.7 18 454.7	13 005.3 13 005.3	28 260.7 28 260.7	3 199.2 3 199.2	241.7 241.7	11 143.3 11 143.3
121	Alabama ----- Bituminous coal and lignite mining -----	151 151	66 66	11.9 11.9	288.9 288.9	9.7 9.7	17.2 17.2	212.8 212.8	874.8 874.8	503.3 503.3	1 098.8 1 098.8	279.2 279.2	10.8 10.8	467.2 467.2
121	Alaska ----- Bituminous coal and lignite mining -----	1 1	1 1	AA AA	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)
121	Arizona ----- Bituminous coal and lignite mining -----	12 12	6 6	EE EE	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	CC CC	(D) (D)
121	Arkansas ----- Bituminous coal and lignite mining -----	14 14	1 1	.1 .1	2.1 2.1	.1 .1	.2 .2	1.4 1.4	5.2 5.2	(D) (D)	4.4 4.4	(D) (D)	.4 .4	15.3 15.3
121	California ----- Bituminous coal and lignite mining -----	14 14	2 2	CC CC	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	.1 .1	1.2 1.2
121	Colorado ----- Bituminous coal and lignite mining -----	103 103	45 45	7.1 7.1	218.2 218.2	3.7 3.7	7.0 7.0	103.8 103.8	359.6 359.6	162.5 162.5	427.5 427.5	94.6 94.6	3.2 3.2	144.0 144.0
121	Illinois ----- Bituminous coal and lignite mining -----	117 117	82 82	19.2 19.2	576.2 576.2	14.7 14.7	29.0 29.0	428.5 428.5	1 449.0 1 449.0	1 013.4 1 013.4	2 123.0 2 123.0	339.4 339.4	15.9 15.9	688.6 688.6
121	Indiana ----- Bituminous coal and lignite mining -----	101 101	48 48	6.3 6.3	194.7 194.7	4.6 4.6	9.6 9.6	138.3 138.3	497.6 497.6	324.0 324.0	769.6 769.6	52.0 52.0	4.8 4.8	232.1 232.1
121	Iowa ----- Bituminous coal and lignite mining -----	10 10	3 3	.1 .1	2.5 2.5	.1 .1	.3 .3	2.0 2.0	9.8 9.8	10.0 10.0	19.1 19.1	.7 .7	.1 .1	5.0 5.0
121	Kansas ----- Bituminous coal and lignite mining -----	15 15	8 8	BB BB	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	.4 .4	17.5 17.5
121	Kentucky ----- Bituminous coal and lignite mining -----	1 343 1 343	445 445	47.9 47.9	1 258.5 1 258.5	40.4 40.4	78.7 78.7	1 033.7 1 033.7	3 570.2 3 570.2	2 948.5 2 948.5	5 961.4 5 961.4	557.3 557.3	43.0 43.0	2 284.6 2 284.6
121	Maryland ----- Bituminous coal and lignite mining -----	36 36	5 5	1.0 1.0	26.1 26.1	.9 .9	1.8 1.8	21.2 21.2	67.8 67.8	39.1 39.1	95.7 95.7	11.2 11.2	.5 .5	30.3 30.3
121	Missouri ----- Bituminous coal and lignite mining -----	34 34	13 13	2.2 2.2	70.7 70.7	1.2 1.2	2.4 2.4	34.4 34.4	118.9 118.9	77.3 77.3	175.3 175.3	21.0 21.0	1.6 1.6	46.5 46.5
121	Montana ----- Bituminous coal and lignite mining -----	16 16	6 6	1.2 1.2	35.8 35.8	.9 .9	1.8 1.8	25.6 25.6	349.1 349.1	107.9 107.9	440.3 440.3	16.7 16.7	.9 .9	146.9 146.9
121	New Mexico ----- Bituminous coal and lignite mining -----	15 15	6 6	2.1 2.1	62.8 62.8	1.6 1.6	3.5 3.5	48.3 48.3	330.3 330.3	95.1 95.1	369.7 369.7	55.6 55.6	1.3 1.3	83.9 83.9
121	North Dakota ----- Bituminous coal and lignite mining -----	16 16	11 11	1.2 1.2	39.7 39.7	.8 .8	1.8 1.8	28.8 28.8	133.5 133.5	66.5 66.5	160.5 160.5	39.5 39.5	.7 .7	47.3 47.3
121	Ohio ----- Bituminous coal and lignite mining -----	263 263	101 101	13.5 13.5	380.0 380.0	11.2 11.2	22.2 22.2	304.5 304.5	1 023.4 1 023.4	729.3 729.3	1 604.1 1 604.1	148.6 148.6	17.4 17.4	721.3 721.3
121	Oklahoma ----- Bituminous coal and lignite mining -----	48 48	22 22	1.5 1.5	39.7 39.7	1.3 1.3	2.6 2.6	31.5 31.5	112.0 112.0	63.2 63.2	155.5 155.5	19.7 19.7	1.5 1.5	69.8 69.8
121	Oregon ----- Bituminous coal and lignite mining -----	3 3	1 1	BB BB	(D) (D)	- -	- -	- -	- -	- -	- -	- -	AA AA	(D) (D)
121	Pennsylvania ----- Bituminous coal and lignite mining -----	675 675	224 224	32.3 32.3	843.5 843.5	26.6 26.6	49.1 49.1	666.0 666.0	1 957.6 1 957.6	1 555.0 1 555.0	3 206.6 3 206.6	306.1 306.1	38.9 38.9	1 703.6 1 703.6
121	Tennessee ----- Bituminous coal and lignite mining -----	224 224	54 54	3.9 3.9	90.6 90.6	3.4 3.4	6.3 6.3	74.3 74.3	217.1 217.1	194.3 194.3	376.2 376.2	35.2 35.2	4.2 4.2	215.0 215.0
121	Texas ----- Bituminous coal and lignite mining -----	48 48	17 17	4.2 4.2	131.7 131.7	2.8 2.8	5.7 5.7	83.9 83.9	230.9 230.9	207.6 207.6	410.0 410.0	28.5 28.5	1.5 1.5	64.7 64.7
121	Utah ----- Bituminous coal and lignite mining -----	29 29	18 18	5.3 5.3	144.3 144.3	4.3 4.3	8.0 8.0	111.5 111.5	370.9 370.9	235.7 235.7	519.6 519.6	87.0 87.0	3.4 3.4	178.8 178.8
121	Virginia ----- Bituminous coal and lignite mining -----	676 676	214 214	20.7 20.7	467.4 467.4	16.7 16.7	29.7 29.7	369.4 369.4	1 284.7 1 284.7	1 378.5 1 378.5	2 435.4 2 435.4	227.9 227.9	19.5 19.5	897.1 897.1
121	Washington ----- Bituminous coal and lignite mining -----	10 10	1 1	CC CC	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	CC CC	(D) (D)
121	West Virginia ----- Bituminous coal and lignite mining -----	881 881	416 416	55.6 55.6	1 528.0 1 528.0	46.4 46.4	89.6 89.6	1 244.7 1 244.7	3 945.8 3 945.8	2 727.2 2 727.2	6 025.8 6 025.8	647.1 647.1	65.5 65.5	2 593.6 2 593.6
121	Wyoming ----- Bituminous coal and lignite mining -----	49 49	30 30	6.1 6.1	199.3 199.3	4.5 4.5	8.8 8.8	144.0 144.0	1 285.3 1 285.3	399.1 399.1	1 501.7 1 501.7	182.7 182.7	3.4 3.4	376.9 376.9

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		Total (number)	With 20 employees or more (number)	Number¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
13	OIL AND GAS EXTRACTION													
	United States -----	60 511	6 814	684.5	17 693.3	434.0	938.6	10 033.0	159 936.6	89 369.6	207 090.7	42 215.5	349.2	48 587.0
131	Crude petroleum and natural gas -----	27 558	1 994	264.2	8 084.3	102.3	213.6	2 724.7	126 035.2	43 214.9	134 969.4	34 280.8	139.7	38 327.1
132	Natural gas liquids -----	793	236	14.2	401.9	11.6	24.3	323.4	8 864.8	33 276.0	41 009.6	1 131.1	13.0	3 286.3
138	Oil and gas field services-----	32 160	4 584	406.1	9 207.2	320.0	700.7	6 984.9	25 036.6	12 878.7	31 111.7	6 803.6	196.4	6 973.6
	Alabama -----	350	25	2.2	50.8	1.7	3.7	38.5	1 035.7	493.3	1 225.0	304.0	1.0	245.3
131	Crude petroleum and natural gas--	119	6	.4	11.4	.3	.6	7.2	858.3	269.1	883.0	244.4	.2	207.2
132	Natural gas liquids-----	5	4	.1	4.4	.1	.3	4.0	74.2	137.1	210.0	1.3	(D)	(D)
138	Oil and gas field services-----	226	15	1.6	35.1	1.2	2.9	27.3	103.2	87.2	132.0	58.3	CC	(D)
	Alaska -----	164	74	12.3	488.0	8.2	19.3	297.2	14 054.9	2 874.1	13 722.2	3 206.8	5.0	1 198.5
131	Crude petroleum and natural gas--	61	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	1 058.8
138	Oil and gas field services-----	100	58	8.2	272.4	6.7	16.0	217.8	845.8	320.7	1 011.7	154.8	FF	(D)
	Arizona -----	88	5	.6	13.4	.4	1.0	9.9	44.6	18.9	57.3	6.2	AA	(D)
131	Crude petroleum and natural gas--	32	1	.1	2.0	(Z)	.1	.7	20.9	6.7	26.7	.9	(D)	(D)
138	Oil and gas field services-----	56	4	.5	11.5	.4	.9	9.2	23.7	12.2	30.6	5.2	.1	3.7
	Arkansas-----	771	42	4.0	89.7	3.1	6.7	67.7	957.3	348.0	1 111.6	193.8	2.2	283.3
131	Crude petroleum and natural gas--	374	9	1.2	26.2	.8	1.5	15.6	784.7	215.0	856.3	143.4	.9	237.0
138	Oil and gas field services-----	395	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	California -----	1 696	391	40.2	1 171.6	23.5	48.6	587.5	11 067.4	4 782.7	12 530.9	3 319.2	24.7	3 040.4
131	Crude petroleum and natural gas--	669	121	19.9	680.7	7.8	16.1	223.4	9 682.7	3 783.0	10 409.0	3 056.8	13.2	2 662.0
132	Natural gas liquids-----	44	8	.7	23.2	.5	1.2	14.8	256.2	580.1	815.9	20.4	.4	45.9
138	Oil and gas field services-----	983	262	19.6	467.7	15.2	31.4	349.3	1 128.5	419.6	1 306.0	242.1	11.0	332.5
	Colorado-----	1 977	291	29.8	858.4	14.8	31.7	346.8	2 312.9	1 966.5	3 214.0	1 065.4	10.1	736.4
131	Crude petroleum and natural gas--	906	143	16.2	558.0	3.8	7.9	109.3	1 385.0	1 284.8	1 802.4	867.3	4.6	522.5
132	Natural gas liquids-----	18	1	.1	3.2	.1	.2	2.7	108.6	269.7	367.9	10.5	.2	61.4
138	Oil and gas field services-----	1 053	147	13.5	297.3	10.9	23.5	234.8	819.4	411.9	1 043.7	187.6	5.3	152.5
	Connecticut-----	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
131	Crude petroleum and natural gas--	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
138	Oil and gas field services-----	14	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	.4
	Delaware and District of Columbia-----	18	3	.2	4.2	(Z)	(Z)	.1	.4	.2	.5	.1	(NA)	(NA)
131	Crude petroleum and natural gas--	9	3	.2	4.1	-	-	-	-	-	-	-	(NA)	(NA)
	Florida -----	175	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
131	Crude petroleum and natural gas--	80	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
132	Natural gas liquids-----	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
138	Oil and gas field services-----	91	6	.8	15.4	.6	1.3	12.7	46.4	16.6	53.2	9.8	BB	(D)
	Georgia -----	29	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
138	Oil and gas field services-----	23	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	2.1
	Idaho -----	65	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
138	Oil and gas field services-----	54	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Illinois-----	1 297	65	7.2	147.7	5.6	11.4	110.1	898.2	449.7	1 208.9	139.0	4.1	265.1
131	Crude petroleum and natural gas--	664	28	3.5	70.3	2.5	4.7	46.4	679.2	335.0	916.3	97.9	2.2	211.2
138	Oil and gas field services-----	632	37	3.8	77.5	3.1	6.7	63.7	219.0	114.7	292.6	41.1	1.9	53.9
	Indiana -----	392	12	1.6	30.5	1.3	2.7	23.9	185.0	85.1	243.1	27.1	CC	(D)
131	Crude petroleum and natural gas--	199	3	.6	10.2	.5	.9	7.1	131.9	60.7	175.0	17.6	.3	50.8
138	Oil and gas field services-----	193	9	1.0	20.4	.9	1.9	16.8	53.1	24.4	68.0	9.5	BB	(D)
	Kansas -----	4 320	195	18.2	428.8	13.1	27.7	270.8	3 117.5	3 533.6	6 241.6	409.4	10.4	1 069.8
131	Crude petroleum and natural gas--	2 269	71	7.7	207.7	4.4	8.7	90.0	2 115.8	702.4	2 527.9	290.3	5.3	818.7
132	Natural gas liquids-----	22	9	.4	11.1	.4	.8	10.0	448.0	2 559.9	2 998.1	9.8	.5	100.1
138	Oil and gas field services-----	2 029	115	10.1	210.0	8.3	18.3	170.7	553.7	271.3	715.6	109.4	4.5	151.0
	Kentucky -----	664	44	4.0	77.3	2.7	5.5	48.6	475.1	827.7	1 238.1	64.6	EE	(D)
131	Crude petroleum and natural gas--	318	25	2.4	44.8	1.3	2.5	22.5	297.3	118.5	371.2	44.6	1.3	102.2
132	Natural gas liquids-----	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
138	Oil and gas field services-----	342	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	17.6
	Louisiana -----	5 494	943	99.1	2 622.4	66.9	148.8	1 653.9	32 919.8	19 853.2	43 507.0	9 266.0	59.2	11 760.0
131	Crude petroleum and natural gas--	2 006	224	31.8	1 009.7	15.1	33.4	449.5	26 573.5	8 318.1	26 911.4	7 980.2	21.4	9 782.8
132	Natural gas liquids-----	100	34	1.6	45.6	1.4	3.0	38.2	1 873.7	9 351.5	11 154.8	70.4	2.2	509.3
138	Oil and gas field services-----	3 388	685	65.6	1 567.0	50.4	112.4	1 166.3	4 472.6	2 183.6	5 440.8	1 215.4	35.7	1 467.9
	Maryland-----	27	2	.2	6.2	.1	.1	1.7	8.4	(D)	9.9	(D)	AA	(D)
	Michigan -----	727	62	5.3	135.9	3.7	8.0	90.5	1 669.1	724.4	2 169.7	223.8	3.5	568.2
131	Crude petroleum and natural gas--	295	26	2.0	55.1	1.0	2.2	27.5	1 309.8	266.2	1 407.5	168.5	1.1	466.4
132	Natural gas liquids-----	7	3	.2	4.0	.2	.3	3.7	114.7	356.3	469.2	1.8	.1	32.5
138	Oil and gas field services-----	425	33	3.2	76.7	2.5	5.5	59.2	244.6	101.9	292.9	53.5	2.3	69.3
	Minnesota-----	35	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
131	Crude petroleum and natural gas--	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
138	Oil and gas field services-----	20	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	.9
	Mississippi-----	1 308	97	8.6	200.3	6.4	14.6	143.5	1 734.8	905.6	2 102.4	538.0	4.9	473.2
131	Crude petroleum and natural gas--	511	29	2.0	57.2	1.1	2.3	27.7	1 309.0	550.1	1 516.9	342.2	1.0	331.1
138	Oil and gas field services-----	793	68	6.6	142.0	5.3	12.2	114.8	415.8	(D)	539.7	(D)	FF	(D)
	Missouri -----	71	2	.3	6.2	.2	.4	4.0	23.1	8.9	29.9	2.2	.1	8.1
131	Crude petroleum and natural gas--	36	1	.1	2.4	.1	.2	1.5	13.7	6.6	19.8	.5	(Z)	5.9
138	Oil and gas field services-----	35	1	.1	3.7	.1	.3	2.5	9.4	2.3	10.0	1.6	.1	2.2

See footnotes at end of table.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
13	OIL AND GAS EXTRACTION—Con.													
	Montana	1 037	66	5.2	122.7	4.0	8.4	92.7	1 207.5	513.4	1 393.0	327.9	2.3	333.3
131	Crude petroleum and natural gas...	451	19	1.4	39.8	.9	1.7	24.5	1 000.4	379.2	1 106.5	273.1	.6	271.1
138	Oil and gas field services.....	583	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	60.2
	Nebraska	335	14	1.5	33.5	1.0	2.2	22.3	211.0	97.4	268.7	39.7	.7	44.1
131	Crude petroleum and natural gas...	165	3	.4	9.5	.2	.5	4.8	151.7	65.7	190.8	26.6	.3	28.2
132	Natural gas liquids.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	1.4
138	Oil and gas field services.....	167	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	14.4
	Nevada	117	11	1.5	32.5	1.2	2.7	26.1	106.9	(D)	131.6	(D)	AA	(D)
131	Crude petroleum and natural gas...	30	2	.1	3.6	.1	.1	1.3	21.9	(D)	38.4	(D)	(D)	(D)
138	Oil and gas field services.....	87	9	1.4	28.9	1.2	2.6	24.7	85.0	24.9	93.2	16.8	.2	6.8
	New Jersey	39	4	1.0	42.0	.2	.4	2.6	10.7	(D)	12.8	(D)	BB	(D)
131	Crude petroleum and natural gas...	13	2	CC	(D)	-	-	-	-	-	-	-	.3	3.1
138	Oil and gas field services.....	26	2	AA	(D)	.2	.4	2.6	10.7	(D)	12.8	(D)	AA	(D)
	New Mexico	1 438	211	16.4	385.7	12.6	27.3	294.1	6 442.3	3 297.7	8 724.9	1 015.1	10.1	2 132.7
131	Crude petroleum and natural gas...	646	45	4.4	116.6	2.9	5.9	78.7	5 130.5	1 140.1	5 436.2	834.4	2.5	1 559.9
132	Natural gas liquids.....	34	19	1.1	29.4	1.1	2.0	28.4	718.5	1 838.1	2 536.4	20.2	.9	367.5
138	Oil and gas field services.....	758	147	10.9	239.6	8.6	19.3	186.9	593.2	319.5	752.3	160.5	6.6	205.4
	New York	317	28	2.4	60.0	1.3	3.0	27.1	198.2	160.2	287.4	70.9	1.3	40.6
131	Crude petroleum and natural gas...	173	9	1.0	24.4	.4	.8	8.2	106.3	87.7	146.5	47.6	.8	26.7
138	Oil and gas field services.....	142	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	North Carolina	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
138	Oil and gas field services.....	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	1.0
	North Dakota	988	89	7.0	179.7	5.5	12.2	138.2	1 852.7	1 255.1	2 048.4	1 059.4	1.7	271.6
131	Crude petroleum and natural gas...	374	12	1.3	40.8	.8	1.8	23.2	1 386.2	979.0	1 469.2	896.0	.4	204.5
132	Natural gas liquids.....	8	4	.2	6.7	.2	.5	6.6	133.7	(D)	169.5	(D)	(D)	(D)
138	Oil and gas field services.....	606	73	5.5	132.1	4.5	9.9	108.3	332.8	(D)	409.7	(D)	EE	(D)
	Ohio	1 575	103	10.5	219.3	7.8	17.2	149.3	1 118.9	633.6	1 388.4	364.2	4.5	275.3
131	Crude petroleum and natural gas...	713	36	4.2	90.7	2.5	5.1	44.3	727.7	369.5	817.5	279.7	1.5	161.1
138	Oil and gas field services.....	861	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	Oklahoma	8 992	1 021	100.8	2 592.9	57.5	123.0	1 286.3	13 075.0	9 572.0	18 159.1	4 488.0	40.2	3 288.8
131	Crude petroleum and natural gas...	4 164	270	39.3	1 202.6	11.6	23.4	285.0	8 407.7	4 740.5	9 881.8	3 266.4	16.3	2 311.7
132	Natural gas liquids.....	98	26	1.4	39.1	1.3	2.7	34.4	1 017.2	2 917.1	3 752.3	182.0	1.4	326.5
138	Oil and gas field services.....	4 730	725	60.1	1 351.1	44.7	96.9	966.9	3 650.2	1 914.3	4 525.0	1 039.5	22.6	650.5
	Oregon	62	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	.7
138	Oil and gas field services.....	40	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pennsylvania	749	61	7.2	168.5	4.1	9.2	81.9	592.0	358.3	770.7	179.6	2.6	139.5
131	Crude petroleum and natural gas...	382	23	3.5	90.7	1.2	2.4	24.4	347.7	(D)	404.4	(D)	1.4	81.8
138	Oil and gas field services.....	364	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	South Dakota	97	4	.3	7.4	.2	.6	5.3	46.7	23.8	58.4	12.1	(D)	(D)
138	Oil and gas field services.....	59	2	.3	5.6	.2	.4	4.2	14.6	4.7	16.1	3.1	(Z)	3.5
	Tennessee	176	15	1.0	18.8	.7	1.6	13.2	126.2	61.5	149.3	38.3	.3	8.4
131	Crude petroleum and natural gas...	74	5	.4	7.1	.2	.5	3.7	91.5	40.5	102.0	30.0	.1	3.2
138	Oil and gas field services.....	102	10	.6	11.8	.5	1.1	9.5	34.6	21.0	47.4	8.3	.2	5.2
	Texas	20 860	2 447	253.6	6 438.8	153.8	331.0	3 439.8	53 608.7	29 655.3	71 133.7	12 130.3	133.9	19 268.1
131	Crude petroleum and natural gas...	9 912	731	103.2	3 127.9	34.1	72.0	928.8	42 039.3	12 960.9	45 578.5	9 421.7	54.3	15 169.3
132	Natural gas liquids.....	381	109	6.9	201.8	5.4	11.4	154.8	3 453.6	12 455.0	15 525.7	383.0	6.3	1 645.0
138	Oil and gas field services.....	10 567	1 607	143.4	3 109.1	114.3	247.6	2 356.2	8 115.8	4 239.4	10 029.6	2 325.6	73.3	2 453.9
	Utah	597	81	5.8	140.5	4.3	9.3	100.9	1 040.6	1 019.2	1 660.5	399.4	4.1	405.3
131	Crude petroleum and natural gas...	224	26	1.7	47.7	.9	1.9	24.2	691.5	679.0	1 030.6	339.9	1.9	304.2
132	Natural gas liquids.....	11	2	.1	4.2	.1	.3	3.9	103.0	231.1	330.5	3.5	.1	19.2
138	Oil and gas field services.....	362	53	3.9	88.6	3.3	7.1	72.9	246.2	109.1	299.3	56.0	2.1	81.9
	Virginia	86	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
131	Crude petroleum and natural gas...	38	3	.2	3.7	.1	.2	1.4	33.8	19.0	31.6	21.2	(D)	(D)
136	Oil and gas field services.....	47	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	1.9
	Washington	73	5	.7	15.3	.6	1.3	11.6	38.2	37.6	47.6	28.2	.2	5.0
138	Oil and gas field services.....	53	5	.7	13.7	.6	1.3	11.5	36.7	(D)	44.7	(D)	.2	4.0
	West Virginia	1 175	70	6.4	133.3	4.8	10.3	89.2	806.2	671.9	1 231.7	246.4	2.9	187.1
131	Crude petroleum and natural gas...	740	30	2.7	52.9	1.9	3.8	34.6	472.0	256.2	564.8	163.4	1.4	109.6
138	Oil and gas field services.....	431	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	Wyoming	1 933	255	20.4	521.7	15.8	34.1	394.9	4 913.2	3 183.5	6 263.2	1 833.5	10.4	1 433.2
131	Crude petroleum and natural gas...	738	52	5.0	150.4	3.0	6.4	91.9	3 759.9	1 833.5	4 321.8	1 271.6	2.8	1 083.6
132	Natural gas liquids.....	31	7	.4	11.7	.4	.8	10.0	230.6	(D)	781.9	(D)	.4	64.7
138	Oil and gas field services.....	1 164	196	15.0	359.5	12.4	26.9	293.0	922.7	(D)	1 159.5	(D)	7.3	284.9
	North and Mid-Atlantic Offshore ..	20	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
138	Oil and gas field services.....	13	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	South Atlantic Offshore.....	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
138	Oil and gas field services.....	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Northern Gulf of Mexico Offshore ..	41	22	3.2	95.4	2.4	5.4	67.1	2 218.2	706.6	2 191.0	733.9	2.7	232.0
131	Crude petroleum and natural gas...	13	7	1.1	36.6	.7	1.7	22.9	1 988.2	594.6	1 945.3	637.5	(Z)	-2.2
138	Oil and gas field services.....	28	15	2.1	58.8	1.7	3.8	44.2	230.0	112.0	245.7	96.4	2.7	234.2

See footnotes at end of table.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
13	OIL AND GAS EXTRACTION—Con.													
	Pacific Offshore	11	7	1.3	39.3	1.0	2.2	29.1	488.3	259.5	529.0	218.7	AA	(D)
131	Crude petroleum and natural gas...	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services.....	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	United States	5 801	1 232	109.8	2 278.5	80.1	163.5	1 529.9	6 273.0	3 948.6	9 067.7	1 153.9	116.9	4 655.9
141	Dimension stone.....	154	21	1.5	21.2	1.2	2.1	16.0	50.2	16.8	63.8	3.3	1.9	38.5
142	Crushed and broken stone, including riprap.....	1 932	567	36.8	700.9	28.2	57.2	493.6	1 787.2	1 053.5	2 571.5	269.3	40.9	1 501.1
144	Sand and gravel.....	2 758	343	27.8	520.4	20.6	41.6	379.6	1 335.6	752.9	1 877.2	211.3	30.5	1 016.7
145	Clay, ceramic, and refractory minerals.....	224	97	10.5	212.0	7.5	16.0	138.9	509.8	484.4	886.9	107.3	10.0	358.1
147	Chemical and fertilizer mineral mining.....	196	114	25.6	680.7	16.4	34.5	394.6	2 237.2	1 416.8	3 134.9	519.1	24.3	1 433.3
148	Nonmetallic minerals services.....	222	18	1.6	34.6	1.3	2.6	25.9	70.4	36.9	100.7	6.6	2.2	69.9
149	Miscellaneous nonmetallic minerals.....	315	72	6.0	108.6	4.8	9.6	81.4	282.5	187.2	432.7	37.0	7.0	238.3
	Alabama	87	24	1.8	34.9	1.2	2.4	16.3	66.7	44.7	101.9	9.5	2.2	71.7
142	Crushed and broken stone, including riprap.....	32	11	1.1	24.3	.7	1.3	9.1	42.5	27.0	63.9	5.5	1.4	44.0
144	Sand and gravel.....	37	7	.4	5.2	.3	.6	4.0	12.9	8.2	19.7	1.4	.5	13.6
145	Clay, ceramic, and refractory minerals.....	12	5	.3	4.2	.2	.3	2.5	6.5	8.1	12.4	2.2	.3	12.6
	Alaska	18	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	6.4
148	Nonmetallic minerals services.....	8	3	.1	3.8	.1	.2	2.2	8.0	(D)	9.0	(D)	.2	4.6
	Arizona	79	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	19.7
144	Sand and gravel.....	41	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	7.6
	Arkansas	67	11	.8	11.4	.6	1.3	9.5	33.6	(D)	47.7	(D)	1.6	59.9
142	Crushed and broken stone, including riprap.....	18	7	.4	6.0	.3	.6	5.1	19.0	10.8	27.7	2.1	.9	42.5
144	Sand and gravel.....	35	3	.3	4.2	.2	.5	3.5	10.2	8.2	15.2	3.2	.4	10.3
	California	344	79	8.6	222.6	6.0	12.2	147.7	683.0	384.2	980.2	87.0	7.7	412.0
142	Crushed and broken stone, including riprap.....	79	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	50.0
144	Sand and gravel.....	180	37	2.5	61.4	1.8	3.5	43.8	158.1	82.4	215.7	24.8	2.8	120.1
145	Clay, ceramic, and refractory minerals.....	12	-	.1	2.3	.1	.2	1.8	1.8	1.4	2.9	.4	AA	(D)
147	Chemical and fertilizer mineral mining.....	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
149	Miscellaneous nonmetallic minerals.....	40	11	1.3	28.9	1.0	1.9	21.4	68.4	46.2	109.6	5.0	EE	(D)
	Colorado	139	18	1.7	29.4	1.4	2.5	22.9	99.3	54.3	133.3	20.3	1.3	37.6
142	Crushed and broken stone, including riprap.....	27	5	.5	5.5	.5	.5	4.4	13.9	(D)	19.6	(D)	.2	6.9
144	Sand and gravel.....	69	8	.6	12.5	.4	.9	8.9	32.4	16.6	41.6	7.4	.5	16.0
147	Chemical and fertilizer mineral mining.....	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
148	Nonmetallic minerals services.....	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals.....	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	8.5
	Connecticut	68	14	.9	30.8	.5	.9	10.0	37.8	20.0	53.9	4.0	.8	23.4
142	Crushed and broken stone, including riprap.....	16	6	.3	9.0	.2	.4	4.1	13.1	7.0	19.2	.9	.2	11.3
144	Sand and gravel.....	41	5	.3	5.5	.2	.4	4.4	21.7	9.9	28.9	2.8	BB	(D)
147	Chemical and fertilizer mineral mining.....	2	2	AA	(D)	-	-	-	-	-	-	-	AA	(D)
	Florida	171	58	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.4	435.3
142	Crushed and broken stone, including riprap.....	51	23	1.7	27.9	1.5	3.1	22.6	94.7	53.7	136.3	12.0	1.3	49.6
144	Sand and gravel.....	57	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
145	Clay, ceramic, and refractory minerals.....	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	9.5
147	Chemical and fertilizer mineral mining.....	32	18	5.4	120.3	3.6	7.4	75.3	579.4	382.8	772.3	189.9	5.9	351.4
149	Miscellaneous nonmetallic minerals.....	23	2	.2	2.4	.1	.3	1.8	7.4	(D)	10.2	(D)	.2	5.0
	Georgia	159	71	7.3	138.3	5.8	12.5	103.9	421.3	367.3	709.9	78.8	7.0	278.6
141	Dimension stone.....	17	2	.2	1.8	.2	.3	1.8	3.6	1.2	4.6	.2	.2	3.0
142	Crushed and broken stone, including riprap.....	61	34	1.8	29.0	1.3	2.9	19.5	103.2	55.9	149.8	9.3	1.9	70.8
144	Sand and gravel.....	42	6	.4	6.2	.4	.7	4.8	12.2	12.3	20.0	4.5	.3	7.4
145	Clay, ceramic, and refractory minerals.....	29	23	4.7	97.2	3.8	8.1	75.3	291.1	290.5	519.0	62.6	4.4	190.1
147	Chemical and fertilizer mineral mining.....	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals.....	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
	Hawaii	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	8.1
142	Crushed and broken stone, including riprap	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Idaho	58	10	.9	19.4	.7	1.3	15.2	70.6	66.4	129.2	7.8	.9	44.3
144	Sand and gravel	18	—	.1	1.7	.1	.1	1.0	3.5	2.5	5.0	1.0	(D)	(D)
147	Chemical and fertilizer mineral mining	6	5	.4	11.2	.3	.6	8.3	54.0	54.0	103.0	5.0	BB	(D)
148	Nonmetallic minerals services	20	4	.2	5.1	.2	.4	4.7	9.7	(D)	16.6	(D)	.4	12.9
	Illinois	258	51	4.7	117.4	2.8	5.7	57.8	196.0	112.9	274.7	34.1	5.8	208.1
142	Crushed and broken stone, including riprap	113	27	1.8	40.4	1.4	3.0	31.0	112.0	59.5	155.1	16.4	2.7	101.0
144	Sand and gravel	120	16	1.3	29.0	1.0	2.1	21.5	69.2	(D)	96.4	(D)	2.0	79.9
145	Clay, ceramic, and refractory minerals	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
147	Chemical and fertilizer mineral mining	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Indiana	209	38	2.3	43.5	1.7	3.5	30.4	102.0	50.6	141.7	10.9	2.8	96.5
141	Dimension stone	7	4	.1	2.3	.1	.2	1.6	4.3	1.4	5.4	.3	.1	2.2
142	Crushed and broken stone, including riprap	76	18	1.1	21.6	.8	1.8	14.9	51.6	28.3	74.3	5.6	1.5	57.4
144	Sand and gravel	115	13	.9	16.5	.7	1.3	11.5	40.1	16.9	52.7	4.3	1.1	33.1
	Iowa	181	23	1.9	34.4	1.5	2.9	24.5	85.1	52.4	121.7	15.9	2.7	80.3
142	Crushed and broken stone, including riprap	105	21	1.4	27.8	1.1	2.2	19.5	69.7	44.3	99.7	14.4	1.8	62.1
144	Sand and gravel	69	2	.4	5.9	.3	.6	4.4	14.3	6.6	19.7	1.2	.8	15.8
	Kansas	111	19	1.3	21.4	1.0	1.8	15.6	49.9	22.4	66.2	6.0	1.4	45.6
142	Crushed and broken stone, including riprap	41	12	.7	10.9	.5	1.0	8.2	27.7	9.9	34.7	3.0	.7	27.9
144	Sand and gravel	59	3	.4	7.4	.3	.5	5.0	15.6	8.6	22.2	2.0	.5	14.0
	Kentucky	124	41	2.2	35.3	1.8	3.6	25.9	95.6	54.5	135.1	15.0	2.6	91.3
142	Crushed and broken stone, including riprap	91	36	1.9	29.3	1.5	3.0	21.2	78.2	45.4	111.2	12.4	EE	(D)
144	Sand and gravel	26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	9.7
145	Clay, ceramic, and refractory minerals	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.2
	Louisiana	105	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	219.2
144	Sand and gravel	79	14	1.0	15.1	.8	1.7	11.9	41.4	31.9	67.4	5.9	EE	(D)
147	Chemical and fertilizer mineral mining	16	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	161.2
149	Miscellaneous nonmetallic minerals	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	21.9
	Maryland	77	23	1.4	26.2	1.1	2.2	19.2	91.1	43.6	117.8	16.9	1.4	46.7
142	Crushed and broken stone, including riprap	26	10	.6	12.0	.5	1.1	9.0	52.0	21.1	64.1	9.0	.6	24.2
144	Sand and gravel	40	12	.7	13.6	.5	1.1	9.7	37.2	22.0	51.4	7.8	CC	(D)
	Massachusetts	92	11	.9	19.0	.6	1.3	13.5	46.8	25.5	63.5	8.8	.9	31.7
142	Crushed and broken stone, including riprap	20	6	.3	6.4	.2	.4	4.3	15.3	6.9	19.8	2.4	BB	(D)
144	Sand and gravel	65	5	.6	12.2	.4	.9	9.0	31.0	18.3	43.0	6.3	.5	14.7
	Michigan	195	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	131.2
142	Crushed and broken stone, including riprap	25	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	53.6
144	Sand and gravel	152	10	1.1	22.1	.8	1.5	14.4	42.4	29.8	63.2	9.1	1.6	61.2
147	Chemical and fertilizer mineral mining	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Minnesota	94	16	1.2	23.0	.8	1.5	14.0	57.2	30.1	77.0	10.3	1.2	40.1
142	Crushed and broken stone, including riprap	25	7	.3	7.0	.3	.5	4.6	15.7	10.2	23.4	2.5	.4	11.3
144	Sand and gravel	59	7	.7	13.2	.4	.9	8.1	37.8	17.7	48.3	7.2	.7	26.0
	Mississippi	64	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
144	Sand and gravel	50	14	.7	8.8	.5	1.0	6.6	19.4	17.1	33.6	2.9	.7	23.5
145	Clay, ceramic, and refractory minerals	7	4	.2	2.9	.2	.4	2.1	8.7	9.6	17.2	1.1	.3	8.7
	Missouri	265	37	2.8	48.7	2.2	4.2	36.7	106.8	69.3	160.2	16.0	2.9	96.3
142	Crushed and broken stone, including riprap	156	25	1.9	32.1	1.5	2.8	24.5	67.5	40.5	98.8	9.2	1.8	64.3
144	Sand and gravel	60	4	.4	7.4	.3	.6	5.7	17.5	10.4	24.2	3.8	.5	16.8
145	Clay, ceramic, and refractory minerals	14	3	.2	4.0	.2	.3	2.6	10.4	10.2	19.5	1.0	.2	4.4
147	Chemical and fertilizer mineral mining	11	4	.2	3.2	.2	.3	2.4	6.8	6.3	12.0	1.1	.2	5.8
	Montana	42	5	.6	13.2	.5	.9	10.2	34.2	21.2	49.0	6.4	CC	(D)
147	Chemical and fertilizer mineral mining	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals	10	3	.4	7.3	.3	.6	5.8	22.0	14.7	31.8	5.0	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
	Nebraska -----	96	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
142	Crushed and broken stone, including riprap -----	14	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
144	Sand and gravel -----	78	3	.5	7.1	.3	.6	4.9	15.3	9.1	21.3	3.1	.8	19.0
145	Clay, ceramic, and refractory minerals -----	1	1	AA	(D)	-	-	-	-	-	-	-	(D)	(D)
	Nevada -----	60	16	1.5	33.8	1.1	2.4	25.9	85.8	74.3	134.1	26.1	1.1	57.5
144	Sand and gravel -----	13	3	.2	3.8	.2	.3	3.3	13.9	(D)	15.5	(D)	AA	(D)
145	Clay, ceramic, and refractory minerals -----	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
147	Chemical and fertilizer mineral mining -----	20	7	.6	14.1	.5	1.1	11.3	34.4	37.1	54.4	17.2	.4	30.9
149	Miscellaneous nonmetallic minerals -----	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.6
	New Hampshire -----	21	2	.2	4.5	.2	.4	3.6	10.1	(D)	17.5	(D)	AA	(D)
144	Sand and gravel -----	16	1	.2	3.0	.1	.3	2.5	7.7	6.2	12.7	1.2	.1	5.8
	New Jersey -----	117	31	2.2	53.5	1.3	2.6	26.6	102.2	67.6	156.6	13.2	2.0	73.5
142	Crushed and broken stone, including riprap -----	22	11	.6	14.0	.5	.9	10.6	42.9	24.5	62.6	4.7	.7	37.5
144	Sand and gravel -----	79	16	1.0	20.4	.7	1.5	14.8	54.6	38.5	85.2	7.9	1.0	33.1
145	Clay, ceramic, and refractory minerals -----	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	New Mexico -----	43	10	2.9	70.6	2.2	4.3	48.9	130.4	116.2	222.2	24.3	3.5	134.6
144	Sand and gravel -----	18	-	.1	1.2	.1	.1	.9	3.1	1.5	3.6	1.0	.1	1.9
147	Chemical and fertilizer mineral mining -----	7	7	2.6	66.1	2.0	3.9	45.2	117.1	109.6	203.9	22.8	3.0	114.1
149	Miscellaneous nonmetallic minerals -----	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	4.1
	New York -----	240	30	3.4	79.4	2.4	4.9	49.6	192.5	81.9	251.6	22.9	3.4	132.1
142	Crushed and broken stone, including riprap -----	69	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	53.9
144	Sand and gravel -----	142	6	.9	16.9	.6	1.2	12.0	43.1	22.2	59.0	6.4	.9	31.9
147	Chemical and fertilizer mineral mining -----	6	5	.8	21.7	.5	1.0	9.5	54.1	15.2	63.9	5.4	CC	(D)
149	Miscellaneous nonmetallic minerals -----	12	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	North Carolina -----	145	58	3.7	62.4	2.7	5.6	37.5	181.4	133.9	286.2	29.0	3.6	106.4
142	Crushed and broken stone, including riprap -----	76	37	1.8	30.7	1.2	2.8	18.4	88.0	52.4	127.3	13.0	1.8	59.6
144	Sand and gravel -----	42	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	10.1
145	Clay, ceramic, and refractory minerals -----	6	4	.3	3.4	.2	.5	2.2	6.4	(D)	13.4	(D)	.3	6.0
147	Chemical and fertilizer mineral mining -----	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
149	Miscellaneous nonmetallic minerals -----	11	6	.3	3.9	.3	.5	3.4	10.2	6.0	15.3	.9	BB	(D)
	North Dakota -----	31	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.3
144	Sand and gravel -----	25	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	4.0
	Ohio -----	344	47	4.1	82.4	2.9	5.7	54.6	176.7	92.5	236.7	32.5	FF	(D)
142	Crushed and broken stone, including riprap -----	99	22	1.6	34.8	1.1	2.2	21.0	64.5	33.3	83.7	14.1	2.1	74.7
144	Sand and gravel -----	214	19	1.8	32.1	1.2	2.4	23.0	80.9	38.4	107.6	11.7	2.0	71.5
145	Clay, ceramic, and refractory minerals -----	14	3	.1	2.9	.1	.2	1.6	6.2	6.1	11.6	.6	.2	5.1
147	Chemical and fertilizer mineral mining -----	5	3	.5	12.1	.4	.9	8.7	24.1	(D)	32.6	(D)	BB	(D)
	Oklahoma -----	93	19	1.6	30.6	1.3	2.9	23.4	81.2	58.1	125.6	13.8	1.6	58.2
142	Crushed and broken stone, including riprap -----	42	15	1.2	22.7	.9	2.1	17.0	57.4	42.9	91.6	8.7	.9	38.3
144	Sand and gravel -----	37	3	.4	6.5	.3	.6	5.1	19.5	12.3	27.7	4.0	.5	17.1
	Oregon -----	121	12	.9	17.4	.7	1.3	12.7	40.6	22.4	57.3	5.8	EE	(D)
142	Crushed and broken stone, including riprap -----	55	5	.4	8.4	.3	.6	6.1	20.2	9.5	27.5	2.2	.5	20.0
144	Sand and gravel -----	51	6	.4	7.3	.3	.6	5.6	17.1	11.5	25.3	3.3	.4	13.2
	Pennsylvania -----	286	55	4.6	89.2	3.1	6.3	57.5	200.4	116.9	286.7	30.7	5.8	176.9
142	Crushed and broken stone, including riprap -----	145	40	2.9	56.6	2.0	4.0	38.1	131.0	82.7	189.8	24.0	3.7	121.5
144	Sand and gravel -----	86	10	1.0	19.2	.8	1.6	14.7	57.5	26.4	78.2	5.7	1.3	42.6
145	Clay, ceramic, and refractory minerals -----	18	1	.2	3.7	.1	.1	1.1	2.9	2.4	5.1	.3	.1	3.8
147	Chemical and fertilizer mineral mining -----	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
148	Nonmetallic minerals services -----	16	2	.1	2.3	.1	.2	2.0	3.9	2.8	6.3	.3	(D)	(D)
	Rhode Island -----	18	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
144	Sand and gravel -----	12	1	.1	2.0	.1	.1	1.3	4.4	2.1	5.9	.6	.1	3.7

See footnotes at end of table.

Table 5. Statistics by Industry Group for Selected States and Offshore Areas: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Geographic area and industry group	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees¹ (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
	South Carolina -----	66	25	1.5	22.5	1.2	2.5	16.9	70.5	52.0	106.7	15.8	EE	(D)
142	Crushed and broken stone, including riprap -----	17	9	.5	6.9	.4	.8	5.6	27.5	(D)	38.4	(D)	.5	21.6
144	Sand and gravel -----	35	8	.5	6.8	.4	.8	4.8	14.8	11.7	23.2	3.2	.4	9.6
145	Clay, ceramic, and refractory minerals -----	6	6	.3	6.0	.3	.6	4.6	17.8	14.5	27.9	4.4	.4	9.0
149	Miscellaneous nonmetallic minerals -----	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	South Dakota -----	35	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	22.3
141	Dimension stone -----	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals -----	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Tennessee -----	141	39	2.6	43.7	2.0	4.1	31.6	118.3	76.3	177.2	17.4	3.2	112.2
142	Crushed and broken stone, including riprap -----	80	21	1.3	22.0	1.1	2.2	16.1	63.0	37.4	93.9	6.5	EE	(D)
144	Sand and gravel -----	41	8	.5	7.2	.3	.7	5.0	19.1	12.0	27.0	4.2	.5	14.9
145	Clay, ceramic, and refractory minerals -----	6	6	.4	5.2	.3	.6	4.1	13.3	9.9	19.1	4.0	.4	11.2
147	Chemical and fertilizer mineral mining -----	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	Texas -----	282	91	7.1	140.1	5.7	12.4	106.5	525.5	336.3	800.6	61.2	7.1	310.7
142	Crushed and broken stone, including riprap -----	59	26	1.9	31.7	1.6	3.7	26.1	102.0	60.3	144.0	18.3	1.5	49.1
144	Sand and gravel -----	169	40	2.7	52.1	2.2	4.8	41.0	159.2	83.4	222.9	19.7	2.7	85.2
145	Clay, ceramic, and refractory minerals -----	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	9.8
147	Chemical and fertilizer mineral mining -----	20	13	1.7	42.3	1.1	2.3	28.2	228.8	149.5	361.5	16.8	1.8	140.2
149	Miscellaneous nonmetallic minerals -----	18	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	25.1
	Utah -----	57	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	52.4
142	Crushed and broken stone, including riprap -----	8	2	.1	2.1	.1	.2	1.8	3.9	1.7	5.2	.4	.1	1.8
147	Chemical and fertilizer mineral mining -----	11	4	.7	16.0	.5	1.1	11.1	68.3	39.8	87.7	20.4	.6	35.1
149	Miscellaneous nonmetallic minerals -----	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.4
	Vermont -----	39	12	.7	14.4	.5	.9	8.1	34.3	28.9	55.6	7.6	CC	(D)
141	Dimension stone -----	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
142	Crushed and broken stone, including riprap -----	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	1.3
149	Miscellaneous nonmetallic minerals -----	9	5	.3	5.8	.2	.4	3.5	10.5	11.7	21.0	1.3	.4	14.3
	Virginia -----	143	57	3.1	51.0	2.4	4.7	32.8	132.1	74.6	185.9	20.7	3.1	106.5
142	Crushed and broken stone, including riprap -----	92	44	2.1	32.3	1.7	3.3	23.7	88.0	57.2	129.1	16.1	2.3	78.5
144	Sand and gravel -----	39	7	.5	7.5	.4	.8	5.8	31.1	11.3	38.6	3.8	.6	18.3
145	Clay, ceramic, and refractory minerals -----	4	4	.2	3.3	.2	.3	2.4	9.8	5.2	14.4	.6	AA	(D)
147	Chemical and fertilizer mineral mining -----	1	1	AA	(D)	-	-	-	-	-	-	-	(D)	(D)
	Washington -----	120	10	.9	17.8	.7	1.3	13.8	44.7	25.1	64.0	5.8	.8	33.8
142	Crushed and broken stone, including riprap -----	32	4	.3	5.5	.2	.4	4.5	12.6	8.2	18.8	2.1	.2	8.9
144	Sand and gravel -----	61	5	.4	8.9	.3	.6	7.0	22.4	11.2	31.1	2.5	.5	20.0
149	Miscellaneous nonmetallic minerals -----	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	2.3
	West Virginia -----	41	14	1.0	17.4	.7	1.3	10.0	31.0	(D)	49.1	(D)	EE	(D)
142	Crushed and broken stone, including riprap -----	26	10	.6	8.5	.4	.8	6.2	18.8	16.1	32.8	2.0	.6	21.5
144	Sand and gravel -----	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	15.3
	Wisconsin -----	176	22	1.7	32.5	1.2	2.4	24.0	76.6	44.8	112.3	9.1	EE	(D)
142	Crushed and broken stone, including riprap -----	69	12	.8	16.5	.6	1.3	12.9	44.3	26.4	65.6	5.1	1.2	41.7
144	Sand and gravel -----	84	9	.8	13.9	.5	1.0	9.4	28.7	15.9	40.8	3.8	.6	24.1
	Wyoming -----	48	19	4.9	144.0	3.5	7.3	96.3	469.6	254.8	564.6	159.9	4.6	278.4
142	Crushed and broken stone, including riprap -----	5	3	.1	2.1	.1	.2	1.6	5.4	2.4	6.9	.9	.1	3.5
145	Clay, ceramic, and refractory minerals -----	12	9	.6	12.8	.5	1.1	10.4	46.2	29.7	68.5	7.5	.6	35.9
147	Chemical and fertilizer mineral mining -----	8	6	4.0	126.1	2.8	5.8	82.2	410.8	219.1	479.3	150.6	3.7	292.1

¹Statistics for some producing States and offshore areas are withheld to avoid disclosing data for individual companies. However, for such States and offshore areas with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	All mineral industries -----	73 005	10 271	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8
	Type of company ownership:											
	Multiunit companies -----	28 825	5 991	757.0	21 362.2	477.1	988.1	12 390.4	157 160.3	92 806.1	208 067.9	41 898.4
	Corporate ownership or control -----	27 877	5 884	746.4	21 069.5	468.9	969.2	12 165.8	155 379.0	91 433.9	205 747.5	41 065.5
	Noncorporate ownership -----	948	107	10.6	292.7	8.3	18.9	224.6	1 781.3	1 372.1	2 320.4	833.0
	Single-unit companies -----	44 180	4 280	356.6	7 275.3	285.0	589.8	5 639.7	30 894.7	16 891.3	41 931.6	5 854.3
	Corporate ownership or control -----	32 887	3 698	293.8	6 165.3	233.8	489.0	4 732.5	24 076.4	13 774.8	33 021.3	4 829.8
	Noncorporate ownership -----	11 293	582	62.8	1 110.0	51.2	100.7	907.1	6 818.3	3 116.5	8 910.3	1 024.5
	Legal form of organization:											
	Corporate -----	60 764	9 582	1 040.1	27 234.9	702.7	1 458.2	16 898.3	179 455.4	105 208.7	238 768.8	45 895.4
	Noncorporate -----	12 241	609	73.5	1 402.7	59.5	119.6	1 131.8	8 599.6	4 488.7	11 230.8	1 857.4
	Individual proprietorships -----	5 582	184	22.3	347.7	17.6	34.5	270.3	2 767.3	1 159.4	3 391.4	535.3
	Partnerships -----	4 278	381	39.3	840.7	32.4	66.7	695.0	4 073.5	2 593.3	5 503.1	1 163.6
	Other and unknown -----	2 381	124	11.8	214.3	9.4	18.5	166.6	1 758.8	736.0	2 336.2	158.6
10	Metal mining -----	1 515	328	68.1	1 860.3	46.8	89.7	1 222.2	3 214.4	3 233.7	5 287.2	1 160.9
	Type of company ownership:											
	Multiunit companies -----	574	269	62.0	1 733.8	41.6	79.5	1 120.9	2 861.4	3 092.3	4 884.9	1 068.8
	Corporate ownership or control -----	572	269	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	941	59	6.2	126.5	5.1	10.2	101.3	353.0	141.5	402.3	92.1
	Corporate ownership or control -----	685	45	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	256	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	1 257	314	66.7	1 833.1	45.5	87.2	1 199.2	3 124.0	3 204.7	5 188.6	1 140.1
	Noncorporate -----	258	14	1.5	27.2	1.2	2.5	23.0	90.4	29.0	98.6	20.8
	Individual proprietorships -----	68	2	.2	3.2	.2	.3	2.6	9.1	3.0	9.5	2.6
	Partnerships -----	160	11	1.1	22.3	1.0	1.9	18.8	77.2	24.2	84.6	16.8
	Other and unknown -----	30	1	.1	1.7	.1	.3	1.6	4.1	1.8	4.5	1.4
1011	Iron ores -----	78	40	11.7	339.8	7.0	12.6	201.2	770.3	706.7	1 414.3	62.7
	Type of company ownership:											
	Multiunit companies -----	49	35	11.5	334.8	6.8	12.2	198.0	751.5	702.0	1 391.8	61.6
	Corporate ownership or control -----	49	35	11.5	334.8	6.8	12.2	198.0	751.5	702.0	1 391.8	61.6
	Single-unit companies -----	29	5	.3	5.0	.2	.4	3.2	18.8	4.8	22.5	1.1
	Corporate ownership or control -----	20	4	.2	4.1	.1	.3	2.9	16.5	4.4	19.9	1.0
	Noncorporate ownership -----	9	1	.1	.9	(Z)	.1	.3	2.3	.4	2.7	.1
	Legal form of organization:											
	Corporate -----	69	39	11.7	338.9	7.0	12.5	200.9	768.0	706.4	1 411.6	62.7
	Noncorporate -----	9	1	.1	.9	(Z)	.1	.3	2.3	.4	2.7	.1
	Individual proprietorships -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	4	1	.1	.8	(Z)	.1	.3	1.9	.3	2.2	(Z)
	Other and unknown -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1021	Copper ores -----	81	51	21.9	603.6	15.9	29.6	428.4	671.7	1 301.5	1 550.6	422.6
	Type of company ownership:											
	Multiunit companies -----	68	51	21.8	602.0	15.8	29.4	427.2	669.6	(D)	1 547.2	(D)
	Corporate ownership or control -----	68	51	21.8	602.0	15.8	29.4	427.2	669.6	(D)	1 547.2	(D)
	Single-unit companies -----	13	-	.1	1.6	.1	.1	1.2	2.0	(D)	3.4	(D)
	Corporate ownership or control -----	10	-	.1	1.6	.1	.1	1.2	1.9	(D)	3.1	(D)
	Noncorporate ownership -----	3	-	(Z)	.1	(Z)	(Z)	(Z)	.1	.1	.2	(Z)
	Legal form of organization:											
	Corporate -----	78	51	21.8	603.6	15.9	29.5	428.4	671.5	1 301.4	1 550.4	422.6
	Noncorporate -----	3	-	(Z)	.1	(Z)	(Z)	(Z)	.1	.1	.2	(Z)
	Individual proprietorships -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1031	Lead and zinc ores -----	71	28	4.3	111.8	2.9	5.8	71.1	200.6	174.5	318.3	56.8
	Type of company ownership:											
	Multiunit companies -----	47	28	4.3	110.4	2.9	5.7	69.8	198.8	172.7	315.1	56.4
	Corporate ownership or control -----	47	28	4.3	110.4	2.9	5.7	69.8	198.8	172.7	315.1	56.4
	Single-unit companies -----	24	-	.1	1.4	.1	.1	1.2	1.8	(D)	3.1	.5
	Corporate ownership or control -----	15	-	(Z)	.9	(Z)	.1	.7	1.0	1.1	1.9	.3
	Noncorporate ownership -----	9	-	(Z)	.6	(Z)	.1	.5	.7	.7	1.3	.2
	Legal form of organization:											
	Corporate -----	62	28	4.3	111.3	2.9	5.8	70.6	199.9	173.7	317.0	56.8
	Noncorporate -----	9	-	(Z)	.6	(Z)	.1	.5	.7	.7	1.3	.2
	Individual proprietorships -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1041	Gold ores -----	286	59	7.7	187.9	5.2	10.2	119.6	479.2	246.4	521.1	204.5
	Type of company ownership:											
	Multiunit companies -----	56	37	5.4	143.4	3.2	6.3	79.9	319.5	195.4	347.8	167.1
	Corporate ownership or control -----	56	37	5.4	143.4	3.2	6.3	79.9	319.5	195.4	347.8	167.1
	Single-unit companies -----	230	22	2.3	44.5	2.1	4.0	39.7	159.7	51.0	173.3	37.4
	Corporate ownership or control -----	137	13	1.6	33.0	1.5	2.8	28.8	113.3	40.1	120.2	33.2
	Noncorporate ownership -----	93	9	.6	11.5	.6	1.2	10.9	46.4	10.9	53.2	4.2
	Legal form of organization:											
	Corporate -----	193	50	7.1	176.4	4.7	9.0	108.7	432.7	235.5	468.0	200.3
	Noncorporate -----	93	9	.6	11.5	.6	1.2	10.9	46.4	10.9	53.2	4.2
	Individual proprietorships -----	12	2	.1	1.3	.1	.1	1.1	2.4	.4	2.5	.3
	Partnerships -----	74	6	.5	9.8	.5	1.0	9.3	42.4	10.4	49.1	3.8
	Other and unknown -----	7	1	(Z)	.5	(Z)	.1	.5	1.6	.1	1.6	.1

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
10	Metal mining—Con.											
1044	Silver ores -----	85	21	2.6	74.8	2.2	4.5	61.2	170.6	82.7	220.3	33.0
	Type of company ownership:											
	Multiunit companies -----	26	15	2.2	68.2	1.8	3.9	55.6	161.4	74.5	204.7	31.2
	Corporate ownership or control -----	26	15	2.2	68.2	1.8	3.9	55.6	161.4	74.5	204.7	31.2
	Single-unit companies -----	59	6	.4	6.6	.4	.6	5.6	9.2	8.2	15.6	1.7
	Corporate ownership or control -----	49	5	.4	5.9	.3	.6	5.0	8.5	7.4	14.4	1.5
	Noncorporate ownership -----	10	1	(Z)	.8	(Z)	.1	.7	.7	.8	1.2	.3
	Legal form of organization:											
	Corporate -----	75	20	2.6	74.1	2.1	4.5	60.6	169.9	81.9	219.1	32.7
	Noncorporate -----	10	1	(Z)	.8	(Z)	.1	.7	.7	.8	1.2	.3
	Individual proprietorships -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1051	Bauxite and other aluminum ores -----	8	4	.3	9.3	.2	.4	5.7	15.4	19.5	29.5	5.4
	Type of company ownership:											
	Multiunit companies -----	8	4	.3	9.3	.2	.4	5.7	15.4	19.5	29.5	5.4
	Corporate ownership or control -----	8	4	.3	9.3	.2	.4	5.7	15.4	19.5	29.5	5.4
	Legal form of organization:											
	Corporate -----	8	4	.3	9.3	.2	.4	5.7	15.4	19.5	29.5	5.4
1061	Ferroalloy ores, except vanadium -----	69	16	4.7	149.8	3.0	5.7	88.1	145.8	169.2	205.5	109.5
	Type of company ownership:											
	Multiunit companies -----	22	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	22	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	47	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	42	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	5	-	(Z)	.2	(Z)	(Z)	.2	.7	.1	.8	(Z)
	Legal form of organization:											
	Corporate -----	64	16	4.7	149.6	3.0	5.7	87.9	145.1	169.1	204.7	109.5
	Noncorporate -----	5	-	(Z)	.2	(Z)	(Z)	.2	.7	.1	.8	(Z)
	Individual proprietorships -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1081	Metal mining services -----	394	22	2.5	60.6	1.8	3.8	42.3	89.5	62.6	125.4	26.8
	Type of company ownership:											
	Multiunit companies -----	144	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	143	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	250	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	223	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	27	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	366	22	2.4	60.0	1.8	3.8	41.7	87.7	61.7	122.9	26.4
	Noncorporate -----	28	-	.1	.7	(Z)	.1	.6	1.9	.9	2.4	.3
	Individual proprietorships -----	15	-	(Z)	.2	(Z)	(Z)	.2	1.0	.4	1.3	.2
	Partnerships -----	8	-	(Z)	.3	(Z)	(Z)	.3	.6	(D)	.8	(D)
	Other and unknown -----	5	-	(Z)	.1	(Z)	(Z)	.1	.3	(D)	.4	(D)
1094	Uranium-radium-vanadium ores -----	215	71	10.5	285.4	7.1	14.4	178.7	578.8	420.2	775.1	223.9
	Type of company ownership:											
	Multiunit companies -----	135	64	9.7	265.1	6.5	13.1	163.5	527.3	396.4	727.5	196.1
	Corporate ownership or control -----	135	64	9.7	265.1	6.5	13.1	163.5	527.3	396.4	727.5	196.1
	Single-unit companies -----	80	7	.8	20.3	.6	1.3	15.2	51.6	23.8	47.5	27.8
	Corporate ownership or control -----	51	6	.5	11.8	.4	.8	9.0	24.6	12.4	21.2	15.8
	Noncorporate ownership -----	29	1	.4	8.5	.3	.5	6.2	27.0	11.4	26.3	12.0
	Legal form of organization:											
	Corporate -----	186	70	10.2	276.9	6.8	13.8	172.4	551.8	408.8	748.7	211.9
	Noncorporate -----	29	1	.4	8.5	.3	.5	6.2	27.0	11.4	26.3	12.0
	Individual proprietorships -----	14	-	.1	.7	(Z)	.1	.6	3.4	1.2	2.7	1.8
	Partnerships -----	10	1	.3	7.5	.2	.4	5.3	22.4	9.7	22.6	9.5
	Other and unknown -----	5	-	(Z)	.4	(Z)	(Z)	.3	1.3	.5	1.0	.7
1092	Mercury ores and metallic ores, n.e.c. -----	228	16	1.8	37.3	1.3	2.7	25.8	92.5	50.4	127.2	15.8
1099												
	Type of company ownership:											
	Multiunit companies -----	19	7	.8	20.5	.5	1.0	11.2	46.6	30.7	72.5	4.9
	Corporate ownership or control -----	18	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	209	9	1.0	16.8	.9	1.7	14.6	45.9	19.7	54.7	10.9
	Corporate ownership or control -----	138	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	71	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	156	14	1.5	33.3	1.1	2.2	22.3	82.1	46.7	116.7	12.1
	Noncorporate -----	72	2	.3	4.1	.2	.4	3.5	10.5	3.7	10.5	3.7
	Individual proprietorships -----	15	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	53	2	.2	3.1	.2	.3	2.8	8.7	2.6	8.1	3.1
	Other and unknown -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
11	Anthracite mining -----	173	41	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3
	Type of company ownership:											
	Multiunit companies -----	42	21	2.1	44.5	1.7	3.5	37.3	99.9	85.1	177.9	7.2
	Corporate ownership or control -----	42	21	2.1	44.5	1.7	3.5	37.3	99.9	85.1	177.9	7.2
	Single-unit companies -----	131	20	1.4	24.5	1.3	2.2	20.1	76.5	55.0	115.4	16.2
	Corporate ownership or control -----	76	14	1.0	19.2	.9	1.6	15.3	56.6	43.7	85.8	14.4
	Noncorporate ownership -----	55	6	.4	5.4	.4	.7	4.8	19.9	11.4	29.5	1.7

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
11	Anthracite mining—Con.											
	Legal form of organization:											
	Corporate.....	118	35	3.1	63.7	2.6	5.1	52.5	156.5	128.8	263.8	21.6
	Noncorporate.....	55	6	.4	5.4	.4	.7	4.8	19.9	11.4	29.5	1.7
	Individual proprietorships.....	21	3	.2	2.7	.2	.3	2.3	9.3	5.7	14.3	.7
	Partnerships.....	29	3	.2	2.6	.2	.3	2.4	10.2	5.4	14.7	.9
	Other and unknown.....	5	—	(Z)	.1	(Z)	(Z)	.1	.4	.2	.5	.1
1111	Anthracite.....	152	40	3.4	66.9	2.9	5.5	55.7	171.7	137.7	286.6	22.9
	Type of company ownership:											
	Multiunit companies.....	39	21	2.1	44.0	1.7	3.5	36.9	98.9	(D)	176.6	(D)
	Corporate ownership or control.....	39	21	2.1	44.0	1.7	3.5	36.9	98.9	(D)	176.6	(D)
	Single-unit companies.....	113	19	1.3	22.9	1.2	2.0	18.8	72.8	(D)	110.0	(D)
	Corporate ownership or control.....	66	13	.9	17.9	.8	1.4	14.2	54.2	(D)	82.4	(D)
	Noncorporate ownership.....	47	6	.4	5.0	.3	.6	4.5	18.6	10.6	27.6	1.5
	Legal form of organization:											
	Corporate.....	105	34	3.0	61.9	2.5	4.9	51.1	153.2	127.1	259.0	21.3
	Noncorporate.....	47	6	.4	5.0	.3	.6	4.5	18.6	10.6	27.6	1.5
	Individual proprietorships.....	20	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships.....	23	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown.....	4	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1112	Anthracite mining services.....	21	1	.1	2.1	.1	.2	1.7	4.7	2.5	6.7	.5
	Type of company ownership:											
	Multiunit companies.....	3	—	(Z)	.5	(Z)	(Z)	.4	1.0	(D)	1.4	(D)
	Corporate ownership or control.....	3	—	(Z)	.5	(Z)	(Z)	.4	1.0	(D)	1.4	(D)
	Single-unit companies.....	18	1	.1	1.6	.1	.2	1.3	3.7	(D)	5.3	(D)
	Corporate ownership or control.....	10	1	.1	1.2	.1	.1	1.0	2.4	(D)	3.4	(D)
	Noncorporate ownership.....	8	—	(Z)	.4	(Z)	.1	.3	1.3	.8	1.9	.2
	Legal form of organization:											
	Corporate.....	13	1	.1	1.8	.1	.2	1.4	3.4	1.7	4.8	.3
	Noncorporate.....	8	—	(Z)	.4	(Z)	.1	.3	1.3	.8	1.9	.2
	Individual proprietorships.....	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships.....	6	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown.....	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Bituminous coal and lignite mining.....	5 005	1 856	247.7	6 736.3	198.3	380.3	5 187.6	18 454.7	13 005.3	28 260.7	3 199.2
	Type of company ownership:											
	Multiunit companies.....	1 424	975	187.0	5 369.3	145.1	282.1	4 029.3	14 339.0	10 537.2	22 409.2	2 467.0
	Corporate ownership or control.....	1 404	967	185.8	5 335.7	144.1	280.2	3 999.4	14 244.6	10 463.8	22 259.9	2 448.5
	Noncorporate ownership.....	20	8	1.1	33.6	1.0	1.8	29.9	94.4	73.5	149.2	18.6
	Single-unit companies.....	3 581	881	60.7	1 366.9	53.2	98.2	1 158.4	4 115.7	2 468.0	5 851.5	732.2
	Corporate ownership or control.....	2 817	777	49.3	1 101.3	43.1	79.4	929.2	3 300.2	2 004.0	4 704.1	600.0
	Noncorporate ownership.....	764	104	11.4	265.6	10.1	18.8	229.2	815.5	464.1	1 147.5	132.2
	Legal form of organization:											
	Corporate.....	4 221	1 744	235.1	6 437.0	187.2	359.7	4 928.6	17 544.8	12 467.7	26 964.0	3 048.5
	Noncorporate.....	784	112	12.6	299.2	11.1	20.6	259.1	909.9	537.6	1 296.7	150.7
	Individual proprietorships.....	256	20	1.8	32.2	1.5	2.7	27.5	109.9	64.7	156.0	18.6
	Partnerships.....	416	77	9.2	227.1	8.2	15.3	197.5	677.1	410.3	970.0	117.4
	Other and unknown.....	112	15	1.6	39.9	1.4	2.6	34.1	122.9	62.6	170.7	14.7
1211	Bituminous coal and lignite.....	4 513	1 767	240.9	6 570.1	192.8	369.5	5 055.6	18 041.2	12 795.5	27 695.4	3 141.3
	Type of company ownership:											
	Multiunit companies.....	1 339	951	185.0	5 314.5	143.7	279.0	3 990.2	14 193.4	10 455.4	22 206.4	2 442.3
	Corporate ownership or control.....	1 319	943	183.9	5 280.9	142.7	277.2	3 960.3	14 099.0	10 381.9	22 057.2	2 423.7
	Noncorporate ownership.....	20	8	1.1	33.6	1.0	1.8	29.9	94.4	73.5	149.2	18.6
	Single-unit companies.....	3 174	816	55.9	1 255.6	49.0	90.4	1 065.5	3 847.9	2 340.2	5 489.0	699.0
	Corporate ownership or control.....	2 504	718	45.2	1 003.7	39.6	72.8	847.8	3 072.3	1 895.0	4 395.4	571.9
	Noncorporate ownership.....	670	98	10.7	251.9	9.4	17.6	217.7	775.6	445.1	1 093.6	127.1
	Legal form of organization:											
	Corporate.....	3 823	1 661	229.1	6 284.6	182.3	350.0	4 808.1	17 171.3	12 276.9	26 452.6	2 995.6
	Noncorporate.....	690	106	11.8	285.5	10.4	19.4	247.5	869.9	518.6	1 242.8	145.7
	Individual proprietorships.....	225	19	1.6	30.3	1.4	2.5	25.7	103.3	61.4	146.8	17.9
	Partnerships.....	373	75	8.9	220.3	7.9	14.7	191.8	658.1	402.4	945.1	115.4
	Other and unknown.....	92	12	1.3	34.8	1.2	2.2	30.1	108.6	54.8	150.9	12.5
1213	Bituminous coal and lignite mining services.....	492	89	6.8	166.1	5.6	10.8	132.0	413.4	209.7	565.3	57.9
	Type of company ownership:											
	Multiunit companies.....	85	24	2.0	54.8	1.4	3.0	39.1	145.6	81.8	202.7	24.7
	Corporate ownership or control.....	85	24	2.0	54.8	1.4	3.0	39.1	145.6	81.8	202.7	24.7
	Single-unit companies.....	407	65	4.8	111.3	4.2	7.8	92.9	267.8	127.9	362.5	33.2
	Corporate ownership or control.....	313	59	4.1	97.6	3.5	6.6	81.3	227.9	108.9	308.7	28.1
	Noncorporate ownership.....	94	6	.7	13.7	.7	1.2	11.5	39.9	19.0	53.8	5.0
	Legal form of organization:											
	Corporate.....	398	83	6.0	152.4	4.9	9.6	120.5	373.5	190.8	511.4	52.9
	Noncorporate.....	94	6	.7	13.7	.7	1.2	11.5	39.9	19.0	53.8	5.0
	Individual proprietorships.....	31	1	.1	1.9	.1	.2	1.8	6.6	3.2	9.1	.7
	Partnerships.....	43	2	.4	6.8	.3	.6	5.7	19.0	8.0	24.9	2.0
	Other and unknown.....	20	3	.2	5.0	.2	.4	4.0	14.3	7.8	19.8	2.3
13	Oil and gas extraction.....	60 511	6 814	684.5	17 693.3	434.0	938.6	10 033.0	159 936.6	89 369.6	207 090.7	42 215.5
	Type of company ownership:											
	Multiunit companies.....	24 272	3 818	424.3	12 405.9	230.1	501.1	6 026.8	134 769.3	75 857.0	173 251.8	37 374.5
	Corporate ownership or control.....	23 393	3 731	416.1	12 174.8	223.9	486.0	5 854.1	133 146.8	74 614.5	171 171.8	36 589.5
	Noncorporate ownership.....	879	87	8.2	231.1	6.2	15.1	172.7	1 622.5	1 242.5	2 080.0	785.0
	Single-unit companies.....	36 239	2 996	260.1	5 287.5	203.9	437.5	4 006.2	25 167.3	13 512.6	33 838.9	4 841.0
	Corporate ownership or control.....	27 027	2 580	215.8	4 553.6	168.8	366.7	3 418.9	19 522.2	11 048.1	26 565.3	4 005.1
	Noncorporate ownership.....	9 212	416	44.4	733.9	35.2	70.8	587.3	5 645.1	2 464.5	7 273.7	835.9
	Legal form of organization:											
	Corporate.....	50 420	6 311	631.9	16 728.4	392.6	852.7	9 273.0	152 669.0	85 662.7	197 737.0	40 594.6
	Noncorporate.....	10 091	503	52.6	964.9	41.4	85.9	760.0	7 267.6	3 707.0	9 353.7	1 620.9
	Individual proprietorships.....	4 737	149	18.2	283.6	14.2	28.3	216.4	2 563.7	1 048.0	3 110.4	501.4
	Partnerships.....	3 367	259	25.8	535.2	20.6	44.5	432.1	3 146.3	2 027.7	4 169.5	1 004.5
	Other and unknown.....	1 987	95	8.5	146.2	6.7	13.1	111.5	1 557.6	631.3	2 073.8	115.0

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
13	Oil and gas extraction—Con.											
1311	Crude petroleum and natural gas	27 558	1 994	264.2	8 084.3	102.3	213.6	2 724.7	126 035.2	43 214.9	134 969.4	34 280.8
	Type of company ownership:											
	Multiunit companies	15 551	1 489	210.5	6 902.7	68.8	147.0	2 057.7	111 720.0	35 786.6	115 581.1	31 925.5
	Corporate ownership or control	14 815	1 450	207.2	6 816.4	67.1	143.3	2 016.4	110 462.2	35 081.1	113 937.5	31 605.9
	Noncorporate ownership	736	39	3.3	86.3	1.8	3.7	41.3	1 257.8	705.5	1 643.6	319.6
	Single-unit companies	12 007	505	53.7	1 181.5	33.5	66.6	667.0	14 315.3	7 428.4	19 388.3	2 355.3
	Corporate ownership or control	7 755	399	40.0	942.0	24.0	49.3	509.0	10 136.4	5 681.0	13 956.7	1 860.6
	Noncorporate ownership	4 252	106	13.7	239.5	9.5	17.4	158.0	4 178.9	1 747.4	5 431.6	494.7
	Legal form of organization:											
	Corporate	22 570	1 849	247.2	7 758.4	91.1	192.5	2 525.4	120 598.6	40 762.1	127 894.1	33 466.5
	Noncorporate	4 988	145	16.9	325.8	11.2	21.1	199.3	5 436.7	2 452.9	7 075.2	814.3
	Individual proprietorships	2 085	42	6.4	115.0	4.3	7.9	73.6	2 095.2	801.2	2 499.1	397.3
	Partnerships	1 734	64	6.8	147.7	4.4	8.8	86.3	1 987.6	1 123.6	2 771.6	339.6
	Other and unknown	1 169	39	3.7	63.1	2.5	4.4	39.5	1 353.9	528.1	1 804.6	77.4
1321	Natural gas liquids	793	236	14.2	401.9	11.6	24.3	323.4	8 864.8	33 276.0	41 009.6	1 131.1
	Type of company ownership:											
	Multiunit companies	765	233	14.0	397.1	11.5	23.9	320.1	8 811.4	32 496.1	40 184.1	1 123.4
	Corporate ownership or control	764	233	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies	28	3	.2	4.8	.2	.3	3.3	53.4	779.9	825.6	7.7
	Corporate ownership or control	14	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate	778	234	14.1	400.4	11.6	24.1	322.2	8 846.3	33 240.9	40 961.5	1 125.7
	Noncorporate	15	2	.1	1.5	.1	.2	1.1	18.5	35.1	48.2	5.4
	Individual proprietorships	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships	10	1	.1	1.3	(Z)	.1	.9	15.8	(D)	33.7	(D)
	Other and unknown	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1381	Drilling oil and gas wells	10 123	1 810	165.5	4 006.7	139.1	295.9	3 240.6	11 315.6	6 687.8	13 797.8	4 205.7
	Type of company ownership:											
	Multiunit companies	3 153	842	85.2	2 274.9	68.8	145.7	1 766.3	6 351.6	3 862.0	7 489.9	2 723.7
	Corporate ownership or control	3 030	796	80.4	2 134.0	64.5	134.7	1 637.5	5 994.1	(D)	7 064.7	(D)
	Noncorporate ownership	123	46	4.8	140.9	4.3	11.1	128.8	357.4	(D)	425.2	(D)
	Single-unit companies	6 970	968	80.3	1 731.8	70.2	150.1	1 474.3	4 964.0	2 825.9	6 307.9	1 482.0
	Corporate ownership or control	5 694	826	67.3	1 505.1	58.9	127.1	1 268.1	4 223.2	(D)	5 406.8	(D)
	Noncorporate ownership	1 276	142	13.1	226.7	11.4	23.0	206.2	740.8	(D)	901.1	(D)
	Legal form of organization:											
	Corporate	8 724	1 622	147.6	3 639.1	123.4	261.8	2 905.6	10 217.3	5 781.4	12 471.5	3 527.2
	Noncorporate	1 399	188	17.9	367.6	15.7	34.1	335.0	1 098.3	906.5	1 326.3	678.5
	Individual proprietorships	515	29	3.0	45.5	2.6	5.4	41.1	144.5	92.8	190.2	47.1
	Partnerships	731	141	13.7	302.3	12.0	26.5	275.4	906.5	786.9	1 077.1	616.2
	Other and unknown	153	18	1.1	19.9	1.1	2.1	18.5	47.3	26.8	58.9	15.2
1382	Oil and gas field exploration services	4 228	389	41.8	809.5	33.3	73.1	621.7	2 306.4	1 044.8	2 960.4	390.8
	Type of company ownership:											
	Multiunit companies	851	221	24.1	464.0	19.4	41.0	350.3	1 324.8	681.0	1 771.0	234.9
	Corporate ownership or control	848	221	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership	3	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies	3 377	168	17.7	345.5	13.9	32.1	271.4	981.6	363.9	1 189.4	156.0
	Corporate ownership or control	2 652	151	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership	725	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate	3 500	372	39.5	770.3	31.4	68.7	588.1	2 174.5	1 000.7	2 802.8	372.3
	Noncorporate	728	17	2.3	39.2	1.9	4.4	33.7	131.9	44.2	157.6	18.5
	Individual proprietorships	404	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships	176	9	.8	15.3	.6	1.5	12.8	64.3	(D)	73.3	(D)
	Other and unknown	148	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1389	Oil and gas field services, n.e.c.	17 809	2 385	198.9	4 391.0	147.7	331.6	3 122.6	11 414.6	5 146.1	14 353.6	2 207.1
	Type of company ownership:											
	Multiunit companies	3 952	1 033	90.6	2 367.1	61.5	143.4	1 532.5	6 561.5	3 031.4	8 225.8	1 367.1
	Corporate ownership or control	3 936	1 031	90.5	2 363.3	61.4	143.1	1 530.0	6 554.4	3 027.1	8 214.9	1 366.6
	Noncorporate ownership	16	2	.2	3.8	.1	.3	2.5	7.1	4.4	10.9	.5
	Single-unit companies	13 857	1 352	108.3	2 023.9	86.1	188.3	1 590.1	4 853.1	2 114.6	6 127.8	839.9
	Corporate ownership or control	10 912	1 203	93.0	1 796.8	73.8	162.4	1 401.7	4 277.9	1 850.6	5 392.2	736.3
	Noncorporate ownership	2 945	149	15.2	227.1	12.3	25.9	188.4	575.2	264.1	735.6	103.6
	Legal form of organization:											
	Corporate	14 848	2 234	183.5	4 160.1	135.2	305.5	2 931.7	10 832.4	4 877.7	13 607.1	2 102.9
	Noncorporate	2 961	151	15.4	230.9	12.5	26.2	190.9	582.2	268.4	746.5	104.1
	Individual proprietorships	1 729	73	7.9	107.7	6.4	13.0	88.5	276.8	130.1	356.2	50.7
	Partnerships	716	44	4.4	68.6	3.6	7.7	56.6	172.2	75.3	213.7	33.7
	Other and unknown	516	34	3.1	54.5	2.6	5.5	45.8	133.3	63.1	176.6	19.8
14	Nonmetallic minerals, except fuels	5 801	1 232	109.8	2 278.5	80.1	163.5	1 529.9	6 273.0	3 948.6	9 067.7	1 153.9
	Type of company ownership:											
	Multiunit companies	2 513	908	81.6	1 808.7	58.6	121.9	1 176.2	5 090.7	3 234.4	7 344.2	981.0
	Corporate ownership or control	2 466	896	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership	47	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies	3 288	324	28.2	469.8	21.5	41.6	353.7	1 182.3	714.2	1 723.5	172.9
	Corporate ownership or control	2 282	282	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership	1 006	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate	4 748	1 178	103.3	2 172.5	74.8	153.5	1 445.0	5 961.1	3 744.8	8 615.4	1 090.5
	Noncorporate	1 053	54	6.5	105.9	5.3	10.0	84.9	311.9	203.7	452.3	63.3
	Individual proprietorships	500	10	2.0	26.0	1.6	2.8	21.5	75.3	38.0	101.3	12.0
	Partnerships	306	31	2.9	53.5	2.4	4.7	44.3	162.6	125.6	264.3	24.0
	Other and unknown	247	13	1.6	26.4	1.3	2.5	19.2	74.0	40.1	86.7	27.4

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
14	Nonmetallic minerals, except fuels—Con.											
1411	Dimension stone -----	154	21	1.5	21.2	1.2	2.1	16.0	50.2	16.8	63.8	3.3
	Type of company ownership:											
	Multiunit companies -----	39	11	.7	10.7	.5	.9	7.3	24.7	7.6	30.9	1.4
	Corporate ownership or control -----	39	11	.7	10.7	.5	.9	7.3	24.7	7.6	30.9	1.4
	Single-unit companies -----	115	10	.8	10.5	.7	1.1	8.7	25.6	9.2	32.9	1.8
	Corporate ownership or control -----	69	9	.6	8.8	.5	.9	7.1	20.1	7.6	26.2	1.5
	Noncorporate ownership -----	46	1	.2	1.7	.1	.2	1.6	5.5	1.6	6.7	.4
	Legal form of organization:											
	Corporate -----	108	20	1.3	19.5	1.1	1.8	14.4	44.8	15.2	57.1	2.9
	Noncorporate -----	46	1	.2	1.7	.1	.2	1.6	5.5	1.6	6.7	.4
	Individual proprietorships -----	26	-	.1	.7	.1	.1	.7	2.6	.7	3.1	.1
	Partnerships -----	9	1	(Z)	.7	(Z)	.1	.7	2.4	(D)	2.8	(D)
	Other and unknown -----	11	-	(Z)	.3	(Z)	(Z)	.2	.5	(D)	.7	(D)
1422	Crushed and broken limestone -----	1 314	378	25.8	497.9	19.8	40.0	350.6	1 228.7	712.1	1 756.1	184.7
	Type of company ownership:											
	Multiunit companies -----	774	277	18.8	382.5	14.4	29.3	265.3	956.1	543.5	1 355.4	144.1
	Corporate ownership or control -----	762	273	18.6	379.2	14.2	28.9	262.6	946.6	538.7	1 341.7	143.6
	Noncorporate ownership -----	12	4	.2	3.3	.2	.4	2.6	9.4	4.8	13.7	.5
	Single-unit companies -----	540	101	7.0	115.3	5.4	10.7	85.3	272.6	168.6	400.7	40.6
	Corporate ownership or control -----	407	89	5.8	99.9	4.5	8.9	73.1	230.3	145.7	342.5	33.4
	Noncorporate ownership -----	133	12	1.2	15.4	1.0	1.8	12.2	42.3	23.0	58.2	7.1
	Legal form of organization:											
	Corporate -----	1 169	362	24.4	479.1	18.7	37.8	335.7	1 176.9	684.4	1 684.2	177.0
	Noncorporate -----	145	16	1.4	18.8	1.1	2.2	14.9	51.8	27.7	71.8	7.7
	Individual proprietorships -----	53	4	.4	5.0	.3	.6	4.1	16.2	7.0	20.3	2.9
	Partnerships -----	52	5	.5	7.4	.4	.7	6.0	19.5	11.4	28.7	2.3
	Other and unknown -----	40	7	.5	6.3	.4	.9	4.8	16.1	9.3	22.8	2.5
1423	Crushed and broken granite -----	189	90	4.5	76.7	3.7	7.6	56.7	259.0	164.2	384.2	39.1
	Type of company ownership:											
	Multiunit companies -----	143	81	3.7	67.6	2.9	6.6	49.6	236.0	148.7	348.4	36.2
	Corporate ownership or control -----	140	81	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	46	9	.8	9.1	.7	1.0	7.1	23.1	15.6	35.8	2.8
	Corporate ownership or control -----	35	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	11	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	175	89	4.5	75.8	3.6	7.5	56.0	256.9	162.6	380.9	38.6
	Noncorporate -----	14	1	.1	.9	.1	.1	.7	2.1	1.6	3.3	.4
	Individual proprietorships -----	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1429	Crushed and broken stone, n.e.c. -----	429	99	6.5	126.4	4.8	9.6	86.4	299.6	177.1	431.2	45.5
	Type of company ownership:											
	Multiunit companies -----	190	66	4.2	87.1	2.9	6.0	55.5	189.0	120.1	276.7	32.4
	Corporate ownership or control -----	186	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	239	33	2.3	39.3	1.8	3.5	30.9	110.5	57.1	154.5	13.1
	Corporate ownership or control -----	167	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	72	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	353	96	6.1	120.2	4.4	9.0	81.2	276.5	166.2	400.1	42.5
	Noncorporate -----	76	3	.4	6.1	.3	.6	5.1	23.1	10.9	31.0	3.0
	Individual proprietorships -----	36	1	.2	2.3	.1	.2	2.0	6.0	3.2	8.4	.9
	Partnerships -----	18	2	.2	2.7	.1	.3	2.2	14.0	7.0	19.2	1.8
	Other and unknown -----	22	-	.1	1.1	.1	.1	.9	3.1	.7	3.5	.3
1442	Construction sand and gravel -----	2 552	275	23.4	437.2	17.4	34.9	324.5	1 112.1	593.6	1 535.3	170.4
	Type of company ownership:											
	Multiunit companies -----	840	165	11.4	229.6	8.6	17.9	166.4	592.9	296.0	803.4	85.5
	Corporate ownership or control -----	827	164	11.3	228.1	8.5	17.7	165.0	590.0	294.4	799.2	85.2
	Noncorporate ownership -----	13	1	.1	1.6	.1	.2	1.4	2.9	1.6	4.2	.3
	Single-unit companies -----	1 712	110	12.1	207.5	8.8	17.0	158.1	519.2	297.7	731.9	84.9
	Corporate ownership or control -----	1 155	95	9.7	170.4	6.9	13.5	127.6	414.9	241.2	587.0	69.1
	Noncorporate ownership -----	557	15	2.4	37.2	1.9	3.5	30.5	104.3	56.5	144.9	15.8
	Legal form of organization:											
	Corporate -----	1 982	259	21.0	398.4	15.4	31.2	292.6	1 004.9	535.6	1 386.2	154.3
	Noncorporate -----	570	16	2.5	38.7	2.0	3.7	31.9	107.2	58.0	149.1	16.2
	Individual proprietorships -----	277	3	1.0	13.1	.7	1.3	10.7	38.9	19.3	51.8	6.4
	Partnerships -----	164	10	1.0	18.3	.9	1.7	15.4	52.4	28.1	73.4	7.0
	Other and unknown -----	129	3	.5	7.3	.4	.7	5.8	16.0	10.6	23.9	2.7
1446	Industrial sand -----	206	68	4.3	83.2	3.2	6.6	55.1	223.5	159.3	341.9	40.9
	Type of company ownership:											
	Multiunit companies -----	115	55	3.5	69.7	2.6	5.4	45.5	191.2	131.1	287.3	35.0
	Corporate ownership or control -----	111	55	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	91	13	.8	13.5	.6	1.3	9.6	32.3	28.2	54.6	5.8
	Corporate ownership or control -----	64	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	27	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	175	66	4.2	81.2	3.1	6.4	53.5	217.3	154.9	332.4	39.9
	Noncorporate -----	31	2	.1	2.0	.1	.2	1.6	6.2	4.4	9.5	1.0
	Individual proprietorships -----	7	-	(Z)	.1	(Z)	(Z)	.1	.4	.2	.5	.1
	Partnerships -----	12	1	.1	1.2	.1	.1	.9	3.6	2.5	5.5	.7
	Other and unknown -----	12	1	(Z)	.7	(Z)	.1	.6	2.2	1.6	3.5	.2

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
14	Nonmetallic minerals, except fuels—Con.											
1452	Bentonite -----	33	16	1.4	27.9	.9	1.7	16.3	63.8	55.8	106.9	12.7
	Type of company ownership:											
	Multiunit companies -----	28	16	1.4	27.5	.8	1.7	16.0	62.9	55.0	105.6	12.3
	Corporate ownership or control -----	28	16	1.4	27.5	.8	1.7	16.0	62.9	55.0	105.6	12.3
	Single-unit companies -----	5	-	(Z)	.4	(Z)	(Z)	.3	.9	.8	1.4	.4
	Corporate ownership or control -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	30	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Individual proprietorships -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1453	Fire clay -----	33	5	.4	7.3	.3	.7	5.1	17.0	14.1	28.0	3.0
	Type of company ownership:											
	Multiunit companies -----	13	2	.2	5.0	.2	.4	3.5	11.5	(D)	20.0	(D)
	Corporate ownership or control -----	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	20	3	.2	2.3	.1	.3	1.6	5.5	(D)	8.0	(D)
	Corporate ownership or control -----	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	11	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	21	4	.3	6.4	.2	.5	4.5	14.0	(D)	23.8	(D)
	Noncorporate -----	12	1	.1	.8	.1	.1	.7	3.0	(D)	4.2	(D)
	Individual proprietorships -----	6	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	4	-	(Z)	.2	(Z)	(Z)	.1	.6	.4	1.0	(Z)
1454	Fuller's earth -----	13	10	1.3	19.6	.9	2.0	12.2	53.4	37.1	80.9	9.6
	Type of company ownership:											
	Multiunit companies -----	11	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	11	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	12	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1455	Kaolin and ball clay -----	49	37	5.3	119.5	3.9	8.4	77.8	301.5	298.1	529.5	70.1
	Type of company ownership:											
	Multiunit companies -----	40	33	5.1	116.1	3.7	8.0	75.3	293.5	291.4	516.4	68.5
	Corporate ownership or control -----	40	33	5.1	116.1	3.7	8.0	75.3	293.5	291.4	516.4	68.5
	Single-unit companies -----	9	4	.2	3.4	.2	.3	2.4	7.9	6.8	13.0	1.6
	Corporate ownership or control -----	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	46	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate -----	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Individual proprietorships -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	96	29	2.1	37.8	1.6	3.3	27.4	74.1	79.3	141.5	11.9
	Type of company ownership:											
	Multiunit companies -----	40	25	1.6	30.2	1.3	2.6	21.9	59.4	64.5	114.8	9.2
	Corporate ownership or control -----	38	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	56	4	.4	7.6	.3	.7	5.6	14.7	14.7	26.8	2.7
	Corporate ownership or control -----	37	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	19	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	75	29	2.0	36.8	1.6	3.1	26.6	71.9	76.1	136.6	11.4
	Noncorporate -----	21	-	.1	1.0	.1	.1	.8	2.2	3.2	4.9	.5
	Individual proprietorships -----	13	-	.1	.7	(Z)	.1	.6	2.0	2.7	4.3	.3
	Partnerships -----	6	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1472	Barite -----	41	13	1.1	22.4	.9	2.0	18.5	81.4	61.7	114.9	28.2
	Type of company ownership:											
	Multiunit companies -----	17	9	.8	17.5	.7	1.6	14.3	65.3	55.9	94.0	27.2
	Corporate ownership or control -----	17	9	.8	17.5	.7	1.6	14.3	65.3	55.9	94.0	27.2
	Single-unit companies -----	24	4	.3	4.9	.2	.5	4.2	16.1	5.8	20.9	1.0
	Corporate ownership or control -----	18	3	.2	3.1	.2	.3	3.0	5.3	4.0	8.6	.7
	Noncorporate ownership -----	6	1	.1	1.7	.1	.2	1.2	10.8	1.8	12.3	.3
	Legal form of organization:											
	Corporate -----	35	12	1.0	20.7	.8	1.9	17.2	70.6	59.9	102.6	27.9
	Noncorporate -----	6	1	.1	1.7	.1	.2	1.2	10.8	1.8	12.3	.3
	Individual proprietorships -----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
14	Nonmetallic minerals, except fuels—Con.											
1473	Flourspar -----	8	3	.3	5.6	.2	.5	3.9	10.9	(D)	18.8	(D)
	Type of company ownership:											
	Multiunit companies -----	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	3	-	(Z)	.2	(Z)	(Z)	.1	.3	(D)	.6	(D)
	Legal form of organization:											
	Corporate -----	5	3	.3	5.4	.2	.4	3.9	10.6	(D)	18.2	(D)
	Noncorporate -----	3	-	(Z)	.2	(Z)	(Z)	.1	.3	(D)	.6	(D)
	Partnerships -----	3	-	(Z)	.2	(Z)	(Z)	.1	.3	(D)	.6	(D)
1474	Potash, soda, and borate minerals -----	37	28	10.5	310.5	7.2	15.1	192.2	954.3	569.4	1 290.8	232.9
	Type of company ownership:											
	Multiunit companies -----	32	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	26	23	9.8	293.6	6.6	14.0	179.2	931.2	527.5	1 234.9	223.8
	Noncorporate ownership -----	6	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	30	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate -----	7	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Individual proprietorships -----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1475	Phosphate rock -----	48	33	7.8	179.6	4.8	9.4	99.1	732.5	538.3	1 047.7	223.0
	Type of company ownership:											
	Multiunit companies -----	41	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	40	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corporate ownership or control -----	5	-	(Z)	.6	(Z)	.1	.6	2.0	2.8	4.5	.3
	Noncorporate ownership -----	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	45	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate -----	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1476	Rock salt -----	30	18	2.9	67.3	1.7	3.9	37.1	148.3	54.5	183.4	19.4
	Type of company ownership:											
	Multiunit companies -----	22	17	2.8	65.9	1.7	3.8	35.9	140.5	52.5	174.0	19.0
	Corporate ownership or control -----	22	17	2.8	65.9	1.7	3.8	35.9	140.5	52.5	174.0	19.0
	Single-unit companies -----	8	1	.1	1.5	.1	.2	1.2	7.8	2.0	9.4	.4
	Corporate ownership or control -----	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	27	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate -----	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Individual proprietorships -----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1477	Sulfur -----	20	16	2.6	84.5	1.3	2.8	37.1	288.2	159.9	441.0	7.2
	Type of company ownership:											
	Multiunit companies -----	20	16	2.6	84.5	1.3	2.8	37.1	288.2	159.9	441.0	7.2
	Corporate ownership or control -----	20	16	2.6	84.5	1.3	2.8	37.1	288.2	159.9	441.0	7.2
	Legal form of organization:											
	Corporate -----	20	16	2.6	84.5	1.3	2.8	37.1	288.2	159.9	441.0	7.2
1479	Chemical and fertilizer mineral mining, n.e.c. -----	12	3	.5	10.8	.4	.7	6.7	21.6	(D)	38.4	(D)
	Type of company ownership:											
	Multiunit companies -----	5	3	.5	10.2	.3	.7	6.3	21.2	(D)	36.3	(D)
	Corporate ownership or control -----	5	3	.5	10.2	.3	.7	6.3	21.2	(D)	36.3	(D)
	Single-unit companies -----	7	-	(Z)	.6	(Z)	(Z)	.4	.4	(D)	2.0	(D)
	Corporate ownership or control -----	7	-	(Z)	.6	(Z)	(Z)	.4	.4	(D)	2.0	(D)
	Legal form of organization:											
	Corporate -----	12	3	.5	10.8	.4	.7	6.7	21.6	(D)	38.4	(D)
1481	Nonmetallic minerals services -----	222	18	1.6	34.6	1.3	2.6	25.9	70.4	36.9	100.7	6.6
	Type of company ownership:											
	Multiunit companies -----	45	11	.6	14.4	.5	1.1	11.5	27.7	14.6	40.0	2.4
	Corporate ownership or control -----	44	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Single-unit companies -----	177	7	1.0	20.2	.7	1.6	14.4	42.7	22.2	60.7	4.2
	Corporate ownership or control -----	130	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership -----	47	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate -----	174	16	1.4	30.3	1.1	2.2	22.2	60.7	30.8	86.2	5.3
	Noncorporate -----	48	2	.2	4.4	.2	.4	3.7	9.8	6.1	14.5	1.3
	Individual proprietorships -----	30	-	.1	.7	(Z)	.1	.5	1.9	.9	2.6	.3
	Partnerships -----	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown -----	9	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Table 6. Industry Statistics by Type of Company Ownership and Legal Form of Organization: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group, industry, type of company ownership, and legal form of organization	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
14	Nonmetallic minerals, except fuels—Con.											
1492	Gypsum-----	30	4	.3	6.2	.2	.4	3.7	20.5	5.9	22.9	3.5
	Type of company ownership:											
	Multiunit companies-----	8	1	.1	2.1	.1	.2	1.2	5.0	1.7	6.3	.3
	Corporate ownership or control-----	8	1	.1	2.1	.1	.2	1.2	5.0	1.7	6.3	.3
	Single-unit companies-----	22	3	.2	4.1	.1	.3	2.5	15.5	4.2	16.6	3.2
	Corporate ownership or control-----	13	3	.2	3.9	.1	.2	2.2	12.4	3.7	13.3	2.9
	Noncorporate ownership-----	9	-	(Z)	.3	(Z)	(Z)	.2	3.1	.5	3.3	.3
	Legal form of organization:											
	Corporate-----	21	4	.3	5.9	.2	.4	3.4	17.4	5.4	19.6	3.2
	Noncorporate-----	9	-	(Z)	.3	(Z)	(Z)	.2	3.1	.5	3.3	.3
	Individual proprietorships-----	5	-	(Z)	.1	(Z)	(Z)	.1	1.6	.2	1.7	.1
	Partnerships-----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown-----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1496	Talc, soapstone, and pyrophyllite-----	27	16	1.1	19.0	.8	1.7	13.0	43.6	33.6	67.9	9.4
	Type of company ownership:											
	Multiunit companies-----	19	11	.8	16.8	.6	1.3	11.6	38.3	30.9	60.6	8.6
	Corporate ownership or control-----	19	11	.8	16.8	.6	1.3	11.6	38.3	30.9	60.6	8.6
	Single-unit companies-----	8	5	.2	2.3	.2	.4	1.5	5.3	2.7	7.3	.8
	Corporate ownership or control-----	6	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate ownership-----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Legal form of organization:											
	Corporate-----	25	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Noncorporate-----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Individual proprietorships-----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Partnerships-----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1499	Miscellaneous nonmetallic minerals, n.e.c.----	258	52	4.6	83.4	3.8	7.5	64.7	218.3	147.7	341.9	24.1
	Type of company ownership:											
	Multiunit companies-----	67	37	3.1	60.4	2.5	5.1	46.6	169.5	114.9	265.1	19.3
	Corporate ownership or control-----	67	37	3.1	60.4	2.5	5.1	46.6	169.5	114.9	265.1	19.3
	Single-unit companies-----	191	15	1.6	23.1	1.3	2.4	18.0	48.8	32.9	76.8	4.8
	Corporate ownership or control-----	141	13	1.2	16.2	.9	1.8	12.4	35.5	24.6	55.9	4.2
	Noncorporate ownership-----	50	2	.4	6.8	.3	.6	5.6	13.3	8.3	20.9	.6
	Legal form of organization:											
	Corporate-----	208	50	4.2	76.6	3.4	6.9	59.1	205.0	139.4	321.0	23.5
	Noncorporate-----	50	2	.4	6.8	.3	.6	5.6	13.3	8.3	20.9	.6
	Individual proprietorships-----	29	1	.1	2.0	.1	.2	1.7	3.1	1.9	4.6	.4
	Partnerships-----	11	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Other and unknown-----	10	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Table 7. Summary Statistics by Major Group and Industry: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	All mineral industries	Major group 10, Metal mining				
		Total	Industry 1011, Iron ores	Industry 1021, Copper ores	Industry 1031, Lead and zinc ores	Industry 1041, Gold ores
Establishments during year ----- number..	73 005	1 515	78	81	71	286
With 0 to 19 employees ----- do..	62 734	1 187	38	30	43	227
With 20 to 99 employees ----- do..	8 352	183	19	20	13	39
With 100 employees or more ----- do..	1 919	145	21	31	15	20
All employees:						
Average for year ----- 1,000..	1 113.6	68.1	11.7	21.9	4.3	7.7
Payroll for year ----- mil. dol..	28 637.5	1 860.3	339.8	603.6	111.8	187.9
Production, development, and exploration workers:						
Average for year ----- 1,000..	762.2	46.8	7.0	15.9	2.9	5.2
March ----- do..	813.2	61.4	12.2	21.9	3.1	5.5
May ----- do..	784.1	50.1	8.0	16.3	3.0	5.6
August ----- do..	746.0	38.8	3.6	13.0	3.0	4.3
November ----- do..	706.7	36.9	4.4	12.4	2.7	5.6
Hours ----- millions..	1 577.9	89.7	12.6	29.6	5.8	10.2
January to March ----- do..	423.9	29.7	5.6	10.1	1.6	2.9
April to June ----- do..	407.4	24.1	3.9	7.5	1.5	2.6
July to September ----- do..	380.8	17.9	1.2	6.0	1.4	2.0
October to December ----- do..	365.6	18.0	1.9	5.9	1.4	2.8
Wages ----- mil. dol..	18 030.1	1 222.2	201.2	428.4	71.1	119.6
Supplemental labor costs not included in payroll ----- do..	6 597.6	506.7	127.7	180.5	23.4	42.1
Legally required expenditures, including Social Security contributions ----- do..	2 879.7	156.8	32.0	47.8	7.8	14.7
Payments for voluntary programs ----- do..	3 718.0	350.0	95.6	132.7	15.6	27.5
Value added by mining ----- do..	188 055.0	3 214.4	770.3	671.7	200.6	479.2
Cost of supplies ----- do..	109 697.4	3 233.7	706.7	1 301.5	174.5	246.4
Supplies used, minerals received, and purchased machinery installed ----- do..	77 821.8	2 110.3	320.2	952.1	114.2	161.4
Resales ----- do..	658.4	(D)	-	(D)	-	-
Purchased fuels consumed ----- do..	4 247.4	295.0	115.1	95.5	5.4	15.8
Purchased electric energy:						
Quantity ----- mil. kWh..	71 292.2	11 850.0	4 088.3	4 648.5	712.1	380.6
Cost ----- mil. dol..	3 193.9	594.4	252.2	209.0	28.6	17.6
Electric energy generated less sold ----- mil. kWh..	6 072.8	1 061.5	(D)	(D)	-	48.8
Contract work ----- mil. dol..	23 775.8	(D)	19.2	(D)	26.2	51.6
Cost of purchased communication services ----- do..	198.0	8.2	1.7	2.1	.3	.8
Value of shipments and receipts ----- do..	249 999.6	5 287.2	1 414.3	1 550.6	318.3	521.1
Value of resales ----- do..	751.2	(D)	-	(D)	-	-
Capital expenditures during year (except land and mineral rights) ----- do..	47 752.8	1 160.9	62.7	422.6	56.8	204.5
New capital expenditures during year ----- do..	19 297.8	854.2	58.9	374.9	42.1	161.6
Buildings and other structures, except land ----- do..	3 195.9	227.0	15.6	19.4	14.2	91.5
Machinery and equipment ----- do..	16 101.8	627.2	43.3	355.4	27.9	70.1
Used capital expenditures during year ----- do..	1 249.2	24.9	2.8	2.5	1.3	3.9
Buildings and other structures, except land ----- do..	97.7	1.4	.2	(Z)	.1	.1
Machinery and equipment ----- do..	1 151.5	23.4	2.6	2.5	1.1	3.7
Mineral exploration and development ¹ ----- do..	27 205.7	281.8	1.1	45.2	13.5	39.1
Rental payments during year ----- do..	1 954.6	54.6	9.1	21.0	.5	3.8
Buildings and other structures, except land ----- do..	409.4	8.2	.4	1.5	.1	1.4
Machinery and equipment ----- do..	1 545.1	46.3	8.7	19.4	.4	2.4
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do..	14 267.9	281.8	52.8	10.4	10.3	13.8
Beginning-of-year inventories ³ ----- do..	12 404.4	1 643.6	304.3	552.9	53.2	96.3
Subject to LIFO costing ⁴ ----- do..	1 266.2	(D)	22.6	219.7	(D)	(D)
LIFO reserve ----- do..	334.1	(D)	2.6	52.0	(D)	(D)
LIFO value ----- do..	932.1	(D)	20.0	167.6	(D)	(D)
Not subject to LIFO costing ----- do..	8 043.0	1 051.0	260.1	(D)	32.4	51.4
Valuation method not reported ⁵ ----- do..	3 066.3	(D)	12.1	(D)	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do..	28.9	9.5	9.5	(Z)	-	-
End-of-year inventories ³ ----- do..	12 655.2	1 588.7	329.6	467.1	67.4	109.5
Subject to LIFO costing ⁴ ----- do..	1 241.8	(D)	23.7	211.2	(D)	(D)
LIFO reserve ----- do..	329.7	(D)	3.0	30.3	(D)	(D)
LIFO value ----- do..	912.1	(D)	20.7	180.8	(D)	(D)
Not subject to LIFO costing ----- do..	8 146.2	986.5	285.7	(D)	41.3	56.5
Valuation method not reported ⁵ ----- do..	3 243.8	(D)	12.1	(D)	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do..	23.4	8.1	8.1	-	-	-

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 10, Metal mining—Con.					
	Industry 1044, Silver ores	Industry 1051, Bauxite and other aluminum ores	Industry 1061, Ferroalloy ores, except vanadium	Industry 1081, Metal mining services	Industry 1094, Uranium- radium- vanadium ores	Industry 1092, Mercury ores and 1099, Metal ores, n.e.c.
Establishments during year ----- number--	85	8	69	394	215	228
With 0 to 19 employees ----- do--	64	4	53	372	144	212
With 20 to 99 employees ----- do--	13	3	7	17	39	13
With 100 employees or more ----- do--	8	1	9	5	32	3
All employees:						
Average for year ----- 1,000--	2.6	.3	4.7	2.5	10.5	1.8
Payroll for year ----- mil. dol--	74.8	9.3	149.8	60.6	285.4	37.3
Production, development, and exploration workers:						
Average for year ----- 1,000--	2.2	.2	3.0	1.8	7.1	1.3
March ----- do--	2.6	.2	4.1	1.9	8.6	1.4
May ----- do--	2.5	.2	3.5	2.0	7.7	1.3
August ----- do--	1.7	.2	3.4	1.9	6.4	1.3
November ----- do--	1.8	.2	1.3	1.6	5.8	1.3
Hours ----- millions--	4.5	.4	5.7	3.8	14.4	2.7
January to March ----- do--	1.3	.1	2.0	.9	4.4	.7
April to June ----- do--	1.2	.1	1.8	1.0	3.8	.7
July to September ----- do--	1.0	.1	1.2	1.1	3.3	.6
October to December ----- do--	1.0	.1	.7	.8	2.8	.6
Wages ----- mil. dol--	61.2	5.7	88.1	42.3	178.7	25.8
Supplemental labor costs not included in payroll ----- do--	19.6	3.1	32.5	11.4	59.4	6.9
Legally required expenditures, including Social Security contributions ----- do--	7.4	.7	13.3	6.3	23.3	3.4
Payments for voluntary programs ----- do--	12.3	2.4	19.2	5.1	36.2	3.5
Value added by mining ----- do--	170.6	15.4	145.8	89.5	578.8	92.5
Cost of supplies ----- do--	82.7	19.5	169.2	62.6	420.2	50.4
Supplies used, minerals received, and purchased machinery installed ----- do--	60.9	8.5	110.6	50.9	298.3	33.1
Resales ----- do--	-	(D)	-	.1	(D)	(D)
Purchased fuels consumed ----- do--	4.7	3.2	10.0	5.7	32.8	6.7
Purchased electric energy:						
Quantity ----- mil. kWh--	281.3	17.9	537.0	40.1	1 016.2	127.9
Cost ----- mil. dol--	7.8	.8	22.9	3.2	45.9	6.5
Electric energy generated less sold ----- mil. kWh--	(D)	-	18.0	(D)	(D)	(D)
Contract work ----- mil. dol--	9.3	(D)	25.7	2.6	(D)	(D)
Cost of purchased communication services ----- do--	.2	.1	.7	.4	1.8	.2
Value of shipments and receipts ----- do--	220.3	29.5	205.5	125.4	775.1	127.2
Value of resales ----- do--	-	(D)	-	.1	(D)	(D)
Capital expenditures during year (except land and mineral rights) ----- do--	33.0	5.4	109.5	26.8	223.9	15.8
New capital expenditures during year ----- do--	14.8	5.3	52.3	24.8	108.7	10.9
Buildings and other structures, except land ----- do--	2.6	.9	10.3	1.4	68.9	2.2
Machinery and equipment ----- do--	12.2	4.4	42.0	23.4	39.8	8.7
Used capital expenditures during year ----- do--	2.3	.1	6.3	1.8	3.1	.9
Buildings and other structures, except land ----- do--	.2	-	.1	(Z)	.3	.2
Machinery and equipment ----- do--	2.0	.1	6.1	1.8	2.8	.7
Mineral exploration and development ¹ ----- do--	15.9	-	50.9	(NA)	112.2	3.9
Rental payments during year ----- do--	1.0	.1	1.3	6.3	10.7	.8
Buildings and other structures, except land ----- do--	(Z)	-	.2	1.3	3.2	.2
Machinery and equipment ----- do--	1.0	.1	1.2	5.0	7.5	.6
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do--	3.9	.1	124.6	(NA)	60.6	5.4
Beginning-of-year inventories ³ ----- do--	36.9	27.1	125.7	12.0	404.2	31.2
Subject to LIFO costing ⁴ ----- do--	(D)	(D)	(D)	(D)	48.4	(D)
LIFO reserve ----- do--	(D)	(D)	(D)	-	13.3	(D)
LIFO value ----- do--	(D)	(D)	(D)	(D)	35.1	(D)
Not subject to LIFO costing ----- do--	32.3	(D)	(D)	10.8	295.4	11.4
Valuation method not reported ⁵ ----- do--	(D)	-	15.0	(D)	60.3	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do--	-	-	-	-	-	-
End-of-year inventories ³ ----- do--	40.0	19.0	137.6	12.5	359.0	47.1
Subject to LIFO costing ⁴ ----- do--	(D)	(D)	78.8	(D)	52.0	(D)
LIFO reserve ----- do--	(D)	(D)	52.8	-	13.3	(D)
LIFO value ----- do--	(D)	(D)	25.9	(D)	38.7	(D)
Not subject to LIFO costing ----- do--	35.8	(D)	43.1	11.5	258.0	21.3
Valuation method not reported ⁵ ----- do--	(D)	-	15.6	(D)	49.0	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do--	-	-	-	-	-	-

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 11, Anthracite mining			Major group 12, Bituminous coal and lignite mining		
	Total	Industry 1111, Anthracite	Industry 1112, Anthracite mining services	Total	Industry 1211, Bituminous coal and lignite	Industry 1213, Bituminous coal and lignite mining services
Establishments during year ----- number ..	173	152	21	5 005	4 513	492
With 0 to 19 employees ----- do ..	132	112	20	3 149	2 746	403
With 20 to 99 employees ----- do ..	35	34	1	1 298	1 215	83
With 100 employees or more ----- do ..	6	6	-	558	552	6
All employees:						
Average for year ----- 1,000 ..	3.5	3.4	.1	247.7	240.9	6.8
Payroll for year ----- mil. dol ..	69.0	66.9	2.1	6 736.3	6 570.1	166.1
Production, development, and exploration workers:						
Average for year ----- 1,000 ..	3.0	2.9	.1	198.3	192.8	5.6
March ----- do ..	3.1	3.0	.1	212.3	206.6	5.7
May ----- do ..	3.0	2.9	.1	205.8	200.1	5.7
August ----- do ..	2.9	2.7	.1	195.2	189.6	5.6
November ----- do ..	2.9	2.8	.1	180.5	175.1	5.4
Hours ----- millions ..	5.7	5.5	.2	380.3	369.5	10.8
January to March ----- do ..	1.4	1.3	.1	107.8	104.9	2.8
April to June ----- do ..	1.4	1.3	.1	100.1	97.3	2.8
July to September ----- do ..	1.4	1.3	.1	89.3	86.6	2.7
October to December ----- do ..	1.6	1.5	.1	82.9	80.5	2.4
Wages ----- mil. dol ..	57.3	55.7	1.7	5 187.6	5 055.6	132.0
Supplemental labor costs not included in payroll ----- do ..	23.9	23.4	.5	2 744.0	2 706.1	37.9
Legally required expenditures, including Social Security contributions ----- do ..	17.7	17.3	.4	1 156.2	1 132.6	23.7
Payments for voluntary programs ----- do ..	6.2	6.1	.1	1 587.8	1 573.5	14.3
Value added by mining ----- do ..	176.4	171.7	4.7	18 454.7	18 041.2	413.4
Cost of supplies ----- do ..	140.2	137.7	2.5	13 005.3	12 795.5	209.7
Supplies used, minerals received, and purchased machinery installed ----- do ..	108.5	107.1	1.5	9 554.9	9 402.8	152.1
Resales ----- do ..	(D)	(D)	-	282.2	282.1	.1
Purchased fuels consumed ----- do ..	11.3	11.0	.3	648.9	613.0	35.9
Purchased electric energy:						
Quantity ----- mil. kWh ..	195.1	189.8	5.3	14 520.1	14 363.3	156.8
Cost ----- mil. dol ..	9.5	9.2	.3	582.2	578.1	4.1
Electric energy generated less sold ----- mil. kWh ..	-	-	-	(D)	(D)	(Z)
Contract work ----- mil. dol ..	(D)	(D)	.5	1 937.0	1 919.5	17.5
Cost of purchased communication services ----- do ..	.2	.2	(Z)	22.7	21.5	1.2
Value of shipments and receipts ----- do ..	293.3	286.6	6.7	28 260.7	27 695.4	565.3
Value of resales ----- do ..	(D)	(D)	-	330.3	330.2	.1
Capital expenditures during year (except land and mineral rights) ----- do ..	23.3	22.9	.5	3 199.2	3 141.3	57.9
New capital expenditures during year ----- do ..	14.6	14.4	.2	2 533.8	2 493.4	40.4
Buildings and other structures, except land ----- do ..	1.1	1.1	(Z)	398.0	396.2	1.8
Machinery and equipment ----- do ..	13.5	13.3	.2	2 135.9	2 097.3	38.6
Used capital expenditures during year ----- do ..	(D)	(D)	.2	350.4	332.9	17.5
Buildings and other structures, except land ----- do ..	.1	.1	-	37.6	37.3	.3
Machinery and equipment ----- do ..	(D)	(D)	.2	312.8	295.6	17.2
Mineral exploration and development ¹ ----- do ..	(D)	(D)	(NA)	315.0	315.0	(NA)
Rental payments during year ----- do ..	5.1	5.0	.1	312.8	306.1	6.7
Buildings and other structures, except land ----- do ..	.3	.3	(Z)	25.4	25.1	.3
Machinery and equipment ----- do ..	4.8	4.7	.1	287.4	280.9	6.4
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do ..	(D)	(D)	(NA)	917.3	917.3	(NA)
Beginning-of-year inventories ³ ----- do ..	28.8	28.7	.1	1 490.7	1 461.3	29.3
Subject to LIFO costing ⁴ ----- do ..	-	-	-	(D)	89.4	(D)
LIFO reserve ----- do ..	-	-	-	(D)	21.2	(D)
LIFO value ----- do ..	-	-	-	(D)	68.3	(D)
Not subject to LIFO costing ----- do ..	20.2	20.2	(Z)	1 001.8	995.3	6.5
Valuation method not reported ⁵ ----- do ..	8.6	8.5	.1	(D)	372.7	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do ..	-	-	-	3.9	3.9	-
End-of-year inventories ³ ----- do ..	41.8	41.7	.1	1 840.4	1 812.7	27.7
Subject to LIFO costing ⁴ ----- do ..	-	-	-	(D)	80.2	(D)
LIFO reserve ----- do ..	-	-	-	(D)	13.8	(D)
LIFO value ----- do ..	-	-	-	(D)	66.5	(D)
Not subject to LIFO costing ----- do ..	28.9	28.9	(Z)	1 263.9	1 257.7	6.1
Valuation method not reported ⁵ ----- do ..	12.8	12.7	.1	(D)	470.0	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do ..	-	-	-	4.7	4.7	-

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 13, Oil and gas extraction					
	Total	Industry 1311, Crude petroleum and natural gas	Industry 1321, Natural gas liquids	Industry 1381, Drilling oil and gas wells	Industry 1382, Oil and gas field exploration services	Industry 1389, Oil and gas field services, n.e.c.
Establishments during year ----- number ..	60 511	27 558	793	10 123	4 228	17 809
With 0 to 19 employees ----- do ..	53 697	25 564	557	8 313	3 839	15 424
With 20 to 99 employees ----- do ..	5 763	1 551	226	1 548	331	2 107
With 100 employees or more ----- do ..	1 051	443	10	262	58	278
All employees:						
Average for year ----- 1,000 ..	684.5	264.2	14.2	165.5	41.8	198.9
Payroll for year ----- mil. dol ..	17 693.3	8 084.3	401.9	4 006.7	809.5	4 391.0
Production, development, and exploration workers:						
Average for year ----- 1,000 ..	434.0	102.3	11.6	139.1	33.3	147.7
March ----- do ..	458.2	100.7	11.6	155.6	35.0	155.5
May ----- do ..	442.6	102.5	11.6	142.2	34.4	151.7
August ----- do ..	427.4	104.6	11.8	132.7	32.9	145.6
November ----- do ..	408.4	101.1	11.6	126.7	31.1	137.9
Hours ----- millions ..	938.6	213.6	24.3	295.9	73.1	331.6
January to March ----- do ..	246.4	52.0	6.0	81.5	18.6	88.3
April to June ----- do ..	239.6	53.9	6.1	75.5	18.8	85.2
July to September ----- do ..	229.4	54.3	6.1	70.1	18.6	80.2
October to December ----- do ..	223.2	53.3	6.0	68.8	17.1	77.9
Wages ----- mil. dol ..	10 033.0	2 724.7	323.4	3 240.6	621.7	3 122.6
Supplemental labor costs not included in payroll ----- do ..	2 834.9	1 142.0	98.8	693.9	117.7	782.5
Legally required expenditures, including Social Security contributions ----- do ..	1 323.9	358.7	30.6	467.8	67.2	399.5
Payments for voluntary programs ----- do ..	1 511.0	783.3	68.1	226.2	50.5	382.9
Value added by mining ----- do ..	159 936.6	126 035.2	8 864.8	11 315.6	2 306.4	11 414.6
Cost of supplies ----- do ..	89 369.6	43 214.9	33 276.0	6 687.8	1 044.8	5 146.1
Supplies used, minerals received, and purchased machinery installed ----- do ..	63 735.1	20 718.7	32 460.5	5 563.6	806.4	4 186.0
Resales ----- do ..	285.0	47.8	—	20.5	8.3	208.4
Purchased fuels consumed ----- do ..	2 491.3	1 195.8	285.2	524.5	92.9	392.8
Purchased electric energy:						
Quantity ----- mil. kWh ..	34 856.8	30 024.4	3 319.2	413.4	168.8	931.0
Cost ----- mil. dol ..	1 525.7	1 312.1	143.2	18.3	7.8	44.4
Electric energy generated less sold ----- mil. kWh ..	4 094.3	1 319.9	1 321.1	1 444.0	.2	9.1
Contract work ----- mil. dol ..	21 332.5	19 940.4	387.1	561.0	129.4	314.5
Cost of purchased communication services ----- do ..	153.0	78.1	4.3	22.4	6.4	41.9
Value of shipments and receipts ----- do ..	207 090.7	134 969.4	41 009.6	13 797.8	2 960.4	14 353.6
Value of resales ----- do ..	322.7	59.5	—	22.9	11.7	228.6
Capital expenditures during year (except land and mineral rights) ----- do ..	42 215.5	34 280.8	1 131.1	4 205.7	390.8	2 207.1
New capital expenditures during year ----- do ..	14 932.0	7 517.9	1 115.9	3 854.2	365.4	2 078.7
Buildings and other structures, except land ----- do ..	2 408.9	1 967.4	92.7	125.2	16.7	206.9
Machinery and equipment ----- do ..	12 523.1	5 550.4	1 023.2	3 729.0	348.7	1 871.8
Used capital expenditures during year ----- do ..	754.8	234.2	15.1	351.5	25.5	128.5
Buildings and other structures, except land ----- do ..	53.2	19.6	9.3	9.1	3.2	12.0
Machinery and equipment ----- do ..	701.5	214.6	5.7	342.4	22.3	116.5
Mineral exploration and development ¹ ----- do ..	26 528.7	26 528.7	(NA)	(NA)	(NA)	(NA)
Rental payments during year ----- do ..	1 519.4	988.7	37.8	164.3	90.1	238.5
Buildings and other structures, except land ----- do ..	371.7	258.3	6.4	24.2	12.8	70.0
Machinery and equipment ----- do ..	1 147.6	730.3	31.4	140.1	77.3	168.5
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do ..	12 698.5	12 698.5	(NA)	(NA)	(NA)	(NA)
Beginning-of-year inventories ³ ----- do ..	7 411.6	5 798.0	147.4	396.6	114.2	955.3
Subject to LIFO costing ⁴ ----- do ..	428.3	84.4	27.6	16.3	.7	299.3
LIFO reserve ----- do ..	105.0	28.2	1.1	3.3	.1	72.3
LIFO value ----- do ..	323.3	56.2	26.5	13.0	.6	227.0
Not subject to LIFO costing ----- do ..	4 842.8	4 190.3	87.1	184.2	60.6	320.7
Valuation method not reported ⁵ ----- do ..	2 133.6	1 517.3	32.6	195.5	52.9	335.3
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do ..	6.9	6.0	.1	.6	—	.1
End-of-year inventories ³ ----- do ..	7 337.3	5 664.3	112.5	408.0	162.3	990.3
Subject to LIFO costing ⁴ ----- do ..	398.0	99.4	21.1	15.4	2.1	260.0
LIFO reserve ----- do ..	102.1	21.4	.9	2.4	1.0	76.4
LIFO value ----- do ..	295.9	77.9	20.2	13.0	1.2	183.6
Not subject to LIFO costing ----- do ..	4 728.8	3 989.5	68.7	210.7	91.6	368.4
Valuation method not reported ⁵ ----- do ..	2 206.2	1 571.9	22.6	181.4	68.5	361.8
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do ..	4.4	3.6	.1	.6	—	.1

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 14, Nonmetallic minerals, except fuels					
	Total	Industry 1411, Dimension stone	Industry 1422, Crushed and broken limestone	Industry 1423, Crushed and broken granite	Industry 1429, Crushed and broken stone, n.e.c.	Industry 1442, Construction sand and gravel
Establishments during year.....number..	5 801	154	1 314	189	429	2 552
With 0 to 19 employees.....do..	4 569	133	936	99	330	2 277
With 20 to 99 employees.....do..	1 073	20	345	88	94	269
With 100 employees or more.....do..	159	1	33	2	5	6
All employees:						
Average for year.....1,000..	109.8	1.5	25.8	4.5	6.5	23.4
Payroll for year.....mil. dol..	2 278.5	21.2	497.9	76.7	126.4	437.2
Production, development, and exploration workers:						
Average for year.....1,000..	80.1	1.2	19.8	3.7	4.8	17.4
March.....do..	78.3	1.1	17.8	3.4	4.4	16.1
May.....do..	82.6	1.2	20.8	3.7	4.8	17.9
August.....do..	81.7	1.3	20.9	3.8	5.0	18.3
November.....do..	77.9	1.2	19.8	3.7	4.7	17.4
Hours.....millions..	163.5	2.1	40.0	7.6	9.6	34.9
January to March.....do..	38.5	.5	8.3	1.5	1.9	7.8
April to June.....do..	42.2	.6	10.6	2.0	2.5	9.0
July to September.....do..	42.8	.6	11.0	2.1	2.7	9.3
October to December.....do..	39.9	.5	10.1	2.0	2.4	8.7
Wages.....mil. dol..	1 529.9	16.0	350.6	56.7	86.4	324.5
Supplemental labor costs not included in payroll.....do..	488.1	4.6	105.4	16.2	24.3	92.2
Legally required expenditures, including Social Security contributions.....do..	225.2	2.7	53.0	8.2	12.5	49.6
Payments for voluntary programs.....do..	263.0	1.9	52.5	8.0	11.8	42.7
Value added by mining.....do..	6 273.0	50.2	1 228.7	259.0	299.6	1 112.1
Cost of supplies.....do..	3 948.6	16.8	712.1	164.2	177.1	593.6
Supplies used, minerals received, and purchased machinery installed.....do..	2 312.9	11.0	453.1	117.9	113.5	379.0
Resales.....do..	51.7	(D)	15.2	(D)	1.8	8.6
Purchased fuels consumed.....do..	800.9	2.3	114.0	17.5	25.6	86.6
Purchased electric energy:						
Quantity.....mil. kWh..	9 870.1	36.3	1 719.4	282.5	392.2	1 387.3
Cost.....mil. dol..	482.0	2.0	85.3	17.5	21.1	75.7
Electric energy generated less sold.....mil. kWh..	(D)	(Z)	1.6	-	1.7	13.3
Contract work.....mil. dol..	301.0	(D)	44.6	(D)	15.2	43.7
Cost of purchased communication services.....do..	13.9	(Z)	2.9	.7	.6	1.6
Value of shipments and receipts.....do..	9 067.7	63.8	1 756.1	384.2	431.2	1 535.3
Value of resales.....do..	55.8	(D)	17.1	(D)	1.9	9.8
Capital expenditures during year (except land and mineral rights).....do..	1 153.9	3.3	184.7	39.1	45.5	170.4
New capital expenditures during year.....do..	963.2	1.9	139.7	31.9	36.4	119.0
Buildings and other structures, except land.....do..	160.9	.1	14.2	1.2	4.1	21.0
Machinery and equipment.....do..	802.3	1.8	125.5	30.7	32.3	98.0
Used capital expenditures during year.....do..	(D)	1.1	39.7	6.8	8.4	42.5
Buildings and other structures, except land.....do..	5.4	(Z)	2.4	.1	.4	1.3
Machinery and equipment.....do..	(D)	1.1	37.3	6.6	8.0	41.3
Mineral exploration and development ¹.....do..	(D)	.3	5.3	.4	.8	8.9
Rental payments during year.....do..	62.7	.1	14.5	2.1	3.9	12.3
Buildings and other structures, except land.....do..	3.6	(Z)	.4	(Z)	.1	.6
Machinery and equipment.....do..	59.1	.1	14.0	2.1	3.8	11.6
Expensed mineral exploration, development, land, and rights ^{1 2}.....do..	(D)	.5	35.5	3.7	15.3	93.8
Beginning-of-year inventories ³.....do..	1 829.7	8.7	299.6	63.2	75.9	209.8
Subject to LIFO costing ⁴.....do..	327.9	(Z)	52.0	21.3	7.0	18.7
LIFO reserve.....do..	80.5	-	12.3	6.0	1.2	3.9
LIFO value.....do..	247.4	(Z)	39.7	15.3	5.8	14.8
Not subject to LIFO costing.....do..	1 127.1	2.3	153.5	27.0	29.2	73.8
Valuation method not reported ⁵.....do..	366.1	6.5	86.8	14.9	39.6	116.0
Amount subject to LIFO reported without associated reserve and value ⁶.....do..	8.6	-	7.3	-	(Z)	1.4
End-of-year inventories ³.....do..	1 847.0	11.2	305.3	58.9	80.9	218.1
Subject to LIFO costing ⁴.....do..	336.0	-	59.4	19.0	7.2	19.5
LIFO reserve.....do..	87.4	-	12.9	6.1	1.5	4.5
LIFO value.....do..	248.6	-	46.5	13.0	5.7	15.0
Not subject to LIFO costing.....do..	1 138.2	2.9	153.9	25.4	30.5	76.7
Valuation method not reported ⁵.....do..	366.7	8.3	87.4	14.0	43.1	120.8
Amount subject to LIFO reported without associated reserve and value ⁶.....do..	6.2	-	4.5	.5	(Z)	1.2

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 14, Nonmetallic minerals, except fuels—Con.					
	Industry 1446, Industrial sand	Industry 1452, Bentonite	Industry 1453, Fire clay	Industry 1454, Fuller's earth	Industry 1455, Kaolin and ball clay	Industry 1459, Clay, ceramic, and refractory minerals, n.e.c.
Establishments during year ----- number..	206	33	33	13	49	96
With 0 to 19 employees ----- do..	138	17	28	3	12	67
With 20 to 99 employees ----- do..	63	11	4	6	23	26
With 100 employees or more ----- do..	5	5	1	4	14	3
All employees:						
Average for year ----- 1,000..	4.3	1.4	.4	1.3	5.3	2.1
Payroll for year ----- mil. dol..	83.2	27.9	7.3	19.6	119.5	37.8
Production, development, and exploration workers:						
Average for year ----- 1,000..	3.2	.9	.3	.9	3.9	1.6
March ----- do..	3.3	1.0	.3	.9	3.9	1.7
May ----- do..	3.3	.9	.3	.9	3.9	1.7
August ----- do..	3.2	.8	.3	.9	3.8	1.6
November ----- do..	3.0	.7	.3	.9	3.8	1.5
Hours ----- millions..	6.6	1.7	.7	2.0	8.4	3.3
January to March ----- do..	1.7	.5	.2	.5	2.2	.8
April to June ----- do..	1.7	.5	.2	.5	2.1	.8
July to September ----- do..	1.6	.4	.2	.5	2.1	.8
October to December ----- do..	1.5	.3	.2	.5	2.0	.7
Wages ----- mil. dol..	55.1	16.3	5.1	12.2	77.8	27.4
Supplemental labor costs not included in payroll ----- do..	18.9	4.7	2.4	3.7	27.4	8.2
Legally required expenditures, including Social Security contributions ----- do..	8.2	2.7	.7	1.9	9.1	4.3
Payments for voluntary programs ----- do..	10.7	2.0	1.7	1.8	18.3	4.0
Value added by mining ----- do..	223.5	63.8	17.0	53.4	301.5	74.1
Cost of supplies ----- do..	159.3	55.8	14.1	37.1	298.1	79.3
Supplies used, minerals received, and purchased machinery installed ----- do..	86.4	34.2	8.4	13.1	167.9	39.9
Resales ----- do..	(D)	(D)	(D)	(D)	(D)	(D)
Purchased fuels consumed ----- do..	35.7	8.6	2.9	17.8	61.2	25.8
Purchased electric energy:						
Quantity ----- mil. kWh..	536.2	97.4	17.7	86.2	789.2	188.8
Cost ----- mil. dol..	26.9	3.9	.8	3.9	34.6	8.9
Electric energy generated less sold ----- mil. kWh..	(Z)	-	-	-	-	-
Contract work ----- mil. dol..	(D)	(D)	(D)	(D)	(D)	(D)
Cost of purchased communication services ----- do..	.8	.2	.1	.2	1.0	.3
Value of shipments and receipts ----- do..	341.9	106.9	28.0	80.9	529.5	141.5
Value of resales ----- do..	(D)	(D)	(D)	(D)	(D)	(D)
Capital expenditures during year (except land and mineral rights) ----- do..	40.9	12.7	3.0	9.6	70.1	11.9
New capital expenditures during year ----- do..	39.3	9.7	2.0	8.2	62.7	11.5
Buildings and other structures, except land ----- do..	5.6	1.6	.3	.7	4.8	1.1
Machinery and equipment ----- do..	33.7	8.2	1.7	7.5	57.9	10.5
Used capital expenditures during year ----- do..	1.2	.2	1.0	.7	.5	.3
Buildings and other structures, except land ----- do..	.1	(Z)	.4	(Z)	(Z)	(Z)
Machinery and equipment ----- do..	1.1	.1	.6	.7	.5	.3
Mineral exploration and development ¹ ----- do..	.4	2.8	(Z)	.7	6.9	.1
Rental payments during year ----- do..	2.9	.2	(Z)	.4	.9	.6
Buildings and other structures, except land ----- do..	.2	(Z)	(Z)	.1	.2	(Z)
Machinery and equipment ----- do..	2.8	.1	(Z)	.4	.7	.6
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do..	17.4	5.0	.1	5.3	7.8	.4
Beginning-of-year inventories ³ ----- do..	41.7	37.3	6.8	9.3	78.9	28.6
Subject to LIFO costing ⁴ ----- do..	3.8	12.8	4.7	(D)	(D)	(D)
LIFO reserve ----- do..	(D)	4.2	1.7	(D)	(D)	(D)
LIFO value ----- do..	(D)	8.6	3.0	(D)	(D)	(D)
Not subject to LIFO costing ----- do..	24.1	20.5	1.1	6.8	(D)	15.5
Valuation method not reported ⁵ ----- do..	13.9	4.0	1.1	(D)	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do..	-	-	-	-	-	-
End-of-year inventories ³ ----- do..	42.3	33.2	5.0	9.4	81.5	30.9
Subject to LIFO costing ⁴ ----- do..	3.3	11.2	3.8	(D)	(D)	(D)
LIFO reserve ----- do..	(D)	4.3	1.6	(D)	(D)	(D)
LIFO value ----- do..	(D)	6.9	2.2	(D)	(D)	(D)
Not subject to LIFO costing ----- do..	24.6	18.1	.8	6.8	(D)	16.5
Valuation method not reported ⁵ ----- do..	14.4	3.9	.4	(D)	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do..	-	-	-	-	-	-

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 14, Nonmetallic minerals, except fuels—Con.				
	Industry 1472, Barite	Industry 1473, Fluorspar	Industry 1474, Potash, soda, and borate minerals	Industry 1475, Phosphate rock	Industry 1476, Rock salt
Establishments during year ----- number--	41	8	37	48	30
With 0 to 19 employees ----- do--	28	5	9	15	12
With 20 to 99 employees ----- do--	11	2	8	11	7
With 100 employees or more ----- do--	2	1	20	22	11
All employees:					
Average for year ----- 1,000--	1.1	.3	10.5	7.8	2.9
Payroll for year ----- mil. dol--	22.4	5.6	310.5	179.6	67.3
Production, development, and exploration workers:					
Average for year ----- 1,000--	.9	.2	7.2	4.8	1.7
March ----- do--	1.1	.3	7.7	5.7	1.7
May ----- do--	1.0	.2	7.2	4.7	1.7
August ----- do--	.9	.2	7.1	4.0	1.7
November ----- do--	.6	.2	6.8	4.6	1.8
Hours ----- millions--	2.0	.5	15.1	9.4	3.9
January to March ----- do--	.5	.1	4.1	2.8	1.0
April to June ----- do--	.6	.1	3.6	2.4	.9
July to September ----- do--	.5	.1	3.8	2.0	.9
October to December ----- do--	.4	.1	3.6	2.3	1.0
Wages ----- mil. dol--	18.5	3.9	192.2	99.1	37.1
Supplemental labor costs not included in payroll ----- do--	4.4	.9	75.5	42.5	12.0
Legally required expenditures, including Social Security contributions ----- do--	3.0	.4	24.7	19.8	5.0
Payments for voluntary programs ----- do--	1.4	.5	50.8	22.7	7.1
Value added by mining ----- do--	81.4	10.9	954.3	732.5	148.3
Cost of supplies ----- do--	61.7	(D)	569.4	538.3	54.5
Supplies used, minerals received, and purchased machinery installed ----- do--	44.2	8.9	310.0	305.6	31.6
Resales ----- do--	(D)	(Z)	(D)	(D)	(D)
Purchased fuels consumed ----- do--	3.2	.9	188.1	54.1	6.9
Purchased electric energy:					
Quantity ----- mil. kWh--	67.6	27.7	1 192.4	2 347.7	164.8
Cost ----- mil. dol--	2.9	1.3	52.9	107.3	8.4
Electric energy generated less sold ----- mil. kWh--	(D)	-	654.6	-	-
Contract work ----- mil. dol--	(D)	(D)	(D)	(D)	(D)
Cost of purchased communication services ----- do--	.4	(Z)	1.8	1.7	.3
Value of shipments and receipts ----- do--	114.9	18.8	1 290.8	1 047.7	183.4
Value of resales ----- do--	(D)	(Z)	(D)	(D)	(D)
Capital expenditures during year (except land and mineral rights) ----- do--	28.2	(D)	232.9	223.0	19.4
New capital expenditures during year ----- do--	23.9	(D)	226.4	183.4	17.9
Buildings and other structures, except land ----- do--	3.1	(D)	71.1	24.9	1.5
Machinery and equipment ----- do--	20.8	(D)	155.3	158.5	16.4
Used capital expenditures during year ----- do--	3.3	(D)	.3	2.4	1.5
Buildings and other structures, except land ----- do--	.1	.1	.1	-	-
Machinery and equipment ----- do--	3.2	(D)	.3	2.4	1.5
Mineral exploration and development ¹ ----- do--	1.0	(D)	6.2	37.2	(Z)
Rental payments during year ----- do--	1.3	(D)	4.1	9.8	.5
Buildings and other structures, except land ----- do--	.1	-	(Z)	1.2	(Z)
Machinery and equipment ----- do--	1.3	(D)	4.1	8.6	.5
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do--	.9	(D)	65.7	77.5	.2
Beginning-of-year inventories ³ ----- do--	47.1	10.4	237.5	364.9	48.8
Subject to LIFO costing ⁴ ----- do--	(D)	(D)	56.1	70.7	(D)
LIFO reserve ----- do--	(D)	(D)	10.9	21.0	(D)
LIFO value ----- do--	(D)	(D)	45.2	49.7	(D)
Not subject to LIFO costing ----- do--	35.6	(D)	181.0	282.1	(D)
Valuation method not reported ⁵ ----- do--	(D)	(D)	.3	12.1	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do--	-	-	-	-	-
End-of-year inventories ³ ----- do--	49.1	9.0	247.2	389.7	39.0
Subject to LIFO costing ⁴ ----- do--	(D)	(D)	72.6	63.4	(D)
LIFO reserve ----- do--	(D)	(D)	18.8	19.0	(D)
LIFO value ----- do--	(D)	(D)	53.8	44.4	(D)
Not subject to LIFO costing ----- do--	39.5	(D)	174.2	314.2	(D)
Valuation method not reported ⁵ ----- do--	(D)	(D)	.4	12.1	(D)
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do--	-	-	-	-	-

See footnotes at end of table.

Table 7. Summary Statistics by Major Group and Industry: 1982—Con.

For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Item	Major group 14, Nonmetallic minerals, except fuels—Con.					
	Industry 1477, Sulfur	Industry 1479, Chemical and fertilizer mineral mining, n.e.c.	Industry 1481, Nonmetallic minerals (except fuels) services	Industry 1492, Gypsum	Industry 1496, Talc, soapstone, and pyrophyllite	Industry 1499, Miscellaneous nonmetallic minerals, n.e.c.
Establishments during year ----- number..	20	12	222	30	27	258
With 0 to 19 employees ----- do..	4	9	204	26	11	206
With 20 to 99 employees ----- do..	6	-	18	4	14	43
With 100 employees or more ----- do..	10	3	-	-	2	9
All employees:						
Average for year ----- 1,000..	2.6	.5	1.6	.3	1.1	4.6
Payroll for year ----- mil. dol..	84.5	10.8	34.6	6.2	19.0	83.4
Production, development, and exploration workers:						
Average for year ----- 1,000..	1.3	.4	1.3	.2	.8	3.8
March ----- do..	1.4	.4	1.2	.2	.9	3.8
May ----- do..	1.4	.4	1.3	.2	.9	3.8
August ----- do..	1.3	.3	1.4	.2	.8	3.9
November ----- do..	1.0	.3	1.2	.2	.8	3.6
Hours ----- millions..	2.8	.7	2.6	.4	1.7	7.5
January to March ----- do..	.8	.2	.5	.1	.4	1.9
April to June ----- do..	.7	.2	.7	.1	.5	1.9
July to September ----- do..	.7	.2	.8	.1	.4	1.9
October to December ----- do..	.6	.1	.6	.1	.4	1.7
Wages ----- mil. dol..	37.1	6.7	25.9	3.7	13.0	64.7
Supplemental labor costs not included in payroll ----- do..	12.1	2.5	6.1	1.3	3.3	19.6
Legally required expenditures, including Social Security contributions ----- do..	3.3	1.2	4.0	.7	1.8	8.6
Payments for voluntary programs ----- do..	8.8	1.3	2.1	.6	1.5	11.0
Value added by mining ----- do..	288.2	21.6	70.4	20.5	43.6	218.3
Cost of supplies ----- do..	159.9	(D)	36.9	5.9	33.6	147.7
Supplies used, minerals received, and purchased machinery installed ----- do..	42.8	16.1	19.6	4.2	23.5	82.1
Resales ----- do..	(D)	-	1.1	-	(D)	.5
Purchased fuels consumed ----- do..	99.0	3.0	7.2	1.3	4.1	35.1
Purchased electric energy:						
Quantity ----- mil. kWh..	82.7	47.1	14.8	5.3	69.1	317.8
Cost ----- mil. dol..	3.5	1.8	.9	.3	3.9	18.4
Electric energy generated less sold ----- mil. kWh..	113.5	-	(Z)	(Z)	(D)	(D)
Contract work ----- mil. dol..	(D)	(D)	8.2	(Z)	(D)	11.7
Cost of purchased communication services ----- do..	.2	.1	.1	(Z)	.2	.6
Value of shipments and receipts ----- do..	441.0	38.4	100.7	22.9	67.9	341.9
Value of resales ----- do..	(D)	-	1.1	-	(D)	.6
Capital expenditures during year (except land and mineral rights) ----- do..	7.2	(D)	6.6	3.5	9.4	24.1
New capital expenditures during year ----- do..	6.8	(D)	4.6	3.0	8.2	19.7
Buildings and other structures, except land ----- do..	.2	(D)	.1	1.5	.4	2.5
Machinery and equipment ----- do..	6.6	(D)	4.5	1.5	7.8	17.2
Used capital expenditures during year ----- do..	.3	(Z)	2.0	.5	.9	2.5
Buildings and other structures, except land ----- do..	-	-	-	(Z)	(Z)	.4
Machinery and equipment ----- do..	.3	(Z)	2.0	.5	.8	2.2
Mineral exploration and development ¹ ----- do..	-	(D)	(NA)	(Z)	.3	1.9
Rental payments during year ----- do..	1.2	(D)	1.5	.2	.5	5.2
Buildings and other structures, except land ----- do..	(Z)	-	.4	-	.2	.1
Machinery and equipment ----- do..	1.2	(D)	1.2	.2	.3	5.1
Expensed mineral exploration, development, land, and rights ^{1 2} ----- do..	3.6	(D)	(NA)	2.5	.9	7.9
Beginning-of-year inventories ³ ----- do..	165.5	14.4	7.1	5.0	15.2	54.2
Subject to LIFO costing ⁴ ----- do..	(D)	(D)	(Z)	.8	-	2.1
LIFO reserve ----- do..	-	(D)	(Z)	.1	-	.5
LIFO value ----- do..	(D)	(D)	(Z)	.7	-	1.6
Not subject to LIFO costing ----- do..	(D)	(D)	1.9	2.4	13.8	27.6
Valuation method not reported ⁵ ----- do..	-	(D)	5.1	1.8	1.3	24.4
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do..	-	-	-	-	-	-
End-of-year inventories ³ ----- do..	147.2	11.3	5.9	4.0	15.5	52.4
Subject to LIFO costing ⁴ ----- do..	(D)	(D)	(Z)	.7	-	2.1
LIFO reserve ----- do..	(D)	(D)	(Z)	.3	-	.4
LIFO value ----- do..	(D)	(D)	(Z)	.4	-	1.6
Not subject to LIFO costing ----- do..	(D)	(D)	2.0	1.9	14.0	28.5
Valuation method not reported ⁵ ----- do..	-	(D)	3.9	1.4	1.5	21.9
Amount subject to LIFO reported without associated reserve and value ⁶ ----- do..	-	-	-	-	-	-

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

³Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

⁴Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

⁵Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁶Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 8. Industry Shipments and Receipts and Net Shipments of Primary Products by Industry: 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for secondary services	Products purchased and resold without further processing	Total produced or performed in all industries	Produced or performed in this industry	Produced or performed in other industries
10	METAL MINING								
1011	Iron ores	1 414.3	(D)	(D)	(D)	-	¹ 358.2	(D)	(D)
1021	Copper ores	1 550.7	1 408.3	(D)	-	(D)	(D)	(D)	(D)
1031	Lead and zinc ores	318.3	(D)	(D)	-	-	(D)	(D)	(D)
1041	Gold ores	521.1	510.1	10.8	.2	-	(D)	(D)	(D)
1044	Silver ores	220.3	209.1	11.2	-	-	(D)	(D)	(D)
1051	Bauxite and other aluminum ores	29.5	(D)	-	-	(D)	(D)	(D)	-
1061	Ferroalloy ores, except vanadium	205.5	203.5	1.9	-	-	(D)	(D)	(D)
1081	Metal mining services	125.4	113.9	(D)	(D)	.1	118.1	113.9	4.2
1094	Uranium-radium-vanadium ores	775.1	762.8	(D)	-	(D)	² 685.9	(D)	(D)
1092	Mercury ores and metallic ores, n.e.c.	127.2	(D)	-	(D)	(D)	127.7	124.6	3.1
1099									
11	ANTHRACITE MINING								
1111	Anthracite	286.6	282.0	(D)	(Z)	(D)	³ 224.3	224.3	-
1112	Anthracite mining services	6.7	6.7	-	-	-	6.7	6.7	-
12	BITUMINOUS COAL AND LIGNITE MINING								
1211	Bituminous coal and lignite	27 695.4	27 329.3	6.5	29.5	330.2	³ 21 631.3	21 629.2	2.1
1213	Bituminous coal and lignite mining services	565.3	557.4	(D)	(D)	.1	589.7	557.4	32.3
13	OIL AND GAS EXTRACTION								
1311	Crude petroleum and natural gas	134 969.4	134 529.8	18.3	361.8	59.5	134 819.7	134 529.8	289.9
1321	Natural gas liquids	41 009.6	40 873.3	123.4	12.9	-	10 052.9	⁴ 10 027.8	25.1
1381	Drilling oil and gas wells	13 797.8	13 138.5	260.5	375.9	22.9	13 512.0	13 138.5	373.5
1382	Oil and gas exploration services	2 960.4	2 816.4	4.0	128.3	11.7	2 854.9	2 816.4	38.5
1389	Oil and gas field services, n.e.c.	14 353.6	13 588.2	75.0	461.8	228.6	14 122.9	13 588.2	534.7
14	NONMETALLIC MINERALS, EXCEPT FUELS								
1411	Dimension stone	63.8	60.5	2.6	(D)	(D)	(D)	(D)	(D)
1422	Crushed and broken limestone	1 756.3	1 643.2	73.9	22.1	17.1	⁵ 1 739.1	⁵ 1 629.7	109.4
1423	Crushed and broken granite	384.2	377.2	6.4	(D)	(D)	⁵ 389.9	⁵ 375.6	14.3
1429	Crushed and broken stone, n.e.c.	431.2	407.1	19.9	2.3	1.9	⁵ 502.1	⁵ 406.4	95.7
1442	Construction sand and gravel	1 535.3	1 463.7	52.4	9.4	9.8	1 690.6	1 450.8	239.8
1446	Industrial sand	341.9	333.4	6.9	(D)	(D)	343.2	329.6	13.6
1452	Bentonite	106.9	(D)	-	(D)	(D)	(D)	(D)	(D)
1453	Fire clay	28.0	27.0	(D)	(D)	(D)	(D)	(D)	(D)
1454	Fuller's earth	80.9	(D)	(D)	-	(D)	(D)	(D)	(D)
1455	Kaolin and ball clay	529.5	521.1	(D)	-	(D)	(D)	(D)	(D)
1459	Clay and related minerals, n.e.c.	141.5	137.7	(D)	-	(D)	144.1	134.6	9.5
1472	Barite	114.9	(D)	(D)	-	(D)	(D)	(D)	(D)
1473	Flourspar	18.8	(D)	(D)	-	(Z)	(D)	(D)	(D)
1474	Potash, soda, and borate minerals	1 290.8	(D)	(D)	-	(D)	1 193.1	(D)	(D)
1475	Phosphate rock	1 047.7	(D)	(D)	-	(D)	962.9	962.9	-
1476	Rock salt	183.4	(D)	(D)	-	(D)	(D)	(D)	(D)
1477	Sulfur	441.0	(D)	-	-	(D)	431.5	(D)	(D)
1479	Chemical and fertilizer mining, n.e.c.	38.4	(D)	(D)	-	-	(D)	(D)	(D)
1481	Nonmetallic minerals (except fuels) services	100.7	91.2	3.7	4.8	1.1	135.3	91.2	44.1
1492	Gypsum	22.9	(D)	(D)	-	-	⁶ 89.6	(D)	(D)
1496	Talc, soapstone, and pyrophyllite	67.9	(D)	(D)	-	(D)	(D)	(D)	(D)
1499	Nonmetallic minerals, n.e.c.	341.9	337.6	(D)	(D)	.6	344.2	329.8	14.4

¹Represents sum of direct-shipping ores, treated iron ores for consumption, and iron agglomerates.

²Represents gross shipments less minerals received for preparation.

³Represents raw coal for use without preparation plus prepared coal.

⁴Represents net natural gas liquids only.

⁵Represents net shipments obtained by subtracting stone received for preparation from gross shipments.

⁶Includes estimated value of gypsum produced and used in same establishment in manufacture of calcined gypsum products. Excludes crushed, ground, screened, and dried gypsum produced in establishments which did not mine gypsum.

Table 9. Employment at Auxiliaries and Related Facilities by Industry Group and Industry: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group and industry	1982		1977		SIC code	Industry group and industry	1982		1977	
		Number of employ- ees (1,000)	Payroll (million dollars)	Number of employ- ees (1,000)	Payroll (million dollars)			Number of employ- ees (1,000)	Payroll (million dollars)	Number of employ- ees (1,000)	Payroll (million dollars)
	All mineral industries -----	139.8	4 698.2	73.5	1 548.1	13	Oil and gas extraction -----	109.6	3 741.3	52.4	1 120.8
0	Metal mining -----	8.1	256.5	6.5	143.2	1311	Crude petroleum and natural gas ----	95.8	3 315.5	45.9	999.7
						1321	Natural gas liquids -----	1.3	39.7	.8	18.0
011	Iron ores -----	1.3	41.5	1.3	31.2	138	Oil and gas field services -----	12.5	386.0	5.7	103.1
						1381	Drilling oil and gas wells -----	4.9	155.0	2.1	35.7
021	Copper ores -----	2.1	73.6	3.3	69.5	1382	Oil and gas field exploration services -----	1.1	29.3	.8	12.9
						1389	Oil and gas field services, n.e.c. ---	6.6	201.7	2.8	54.5
031	Lead and zinc ores -----	.6	19.7	.5	9.9	14	Nonmetallic minerals, except fuels --	7.7	243.6	(D)	(D)
04	Gold and silver ores -----	1.5	43.2	(NA)	(NA)	1411	Dimension stone -----	.1	1.8	.2	2.2
041	Gold ores -----	(D)	(D)	(NA)	(NA)						
044	Silver ores -----	(D)	(D)	(NA)	(NA)	142	Crushed and broken stone, including riprap -----	2.4	68.0	1.6	29.5
						1422	Crushed and broken limestone ----	1.5	45.3	1.3	22.3
051	Bauxite and other aluminum ores ----	(D)	(D)	(Z)	.5	1423	Crushed and broken granite -----	.2	6.3	(D)	(D)
						1429	Crushed and broken stone, n.e.c. ---	.6	16.3	(D)	(D)
061	Ferroalloy ores, except vanadium ----	(D)	(D)	.5	11.3	144	Sand and gravel -----	(D)	(D)	1.3	23.6
						1442	Construction sand and gravel ----	(D)	(D)	.9	16.0
081	Metal mining services -----	(D)	(D)	(Z)	.7	1446	Industrial sand -----	.3	8.5	.4	7.7
09	Miscellaneous metal ores -----	(D)	(D)	(D)	(D)	145	Clay, ceramic, and refractory minerals -----	1.1	29.7	(D)	(D)
094	Uranium-radium-vanadium ores ----	1.6	50.4	.5	12.0	1452	Bentonite -----	(D)	(D)	(D)	(D)
092						1453	Fire clay -----	(D)	(D)	(NA)	(NA)
099	Mercury ores and metallic ores, n.e.c. -----	(D)	(D)	(D)	(D)	1454	Fuller's earth -----	(D)	(D)	(NA)	(NA)
						1455	Kaolin and ball clay -----	.6	20.2	.2	6.6
						1459	Clay, ceramic, and refractory minerals, n.e.c. -----	(D)	(D)	(NA)	(NA)
1	Anthracite mining -----	(D)	(D)	(D)	(D)	147	Chemical and fertilizer mineral mining -----	(D)	(D)	(D)	(D)
						1472	Barite -----	(D)	(D)	-	-
11	Anthracite mining -----	(D)	(D)	(D)	(D)	1474	Potash, soda, and borate minerals --	.6	29.0	.1	1.7
111	Anthracite -----	(D)	(D)	(D)	(D)	1475	Phosphate rock -----	.9	27.8	(NA)	(NA)
						1476	Rock salt -----	.7	17.8	.3	4.2
2	Bituminous coal and lignite mining --	(D)	(D)	9.2	181.2	1477	Sulfur -----	(D)	(D)	(D)	(D)
						1481	Nonmetallic minerals services -----	(D)	(D)	(D)	(D)
21	Bituminous coal and lignite mining ---	(D)	(D)	9.2	181.2	149	Miscellaneous nonmetallic minerals --	.1	1.8	.1	2.5
211	Bituminous coal and lignite -----	14.2	453.9	9.2	181.0	1492	Gypsum -----	(D)	(D)	-	-
213	Bituminous coal and lignite mining services -----	(D)	(D)	(Z)	.2	1499	Miscellaneous nonmetallic minerals, n.e.c. -----	(D)	(D)	.1	2.5

Note: Figures in this table represent auxiliary establishments at different locations from establishments managed or served, or at same location as one of these establishments but not operated as an integral part of it. All figures in this table have been included in reports for industries with which they have been associated.

Table 10. Employment at Auxiliaries and Related Facilities for Selected States: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area	1982		1977		Geographic area	1982		1977	
	Number of employees (1,000)	Payroll (million dollars)	Number of employees (1,000)	Payroll (million dollars)		Number of employees (1,000)	Payroll (million dollars)	Number of employees (1,000)	Payroll (million dollars)
United States	139.8	4 698.2	73.5	1 548.1	Nebraska .....	.4	6.3	.3	4.5
Alabama .....	.5	17.8	(NA)	(NA)	Nevada .....	.4	11.4	(NA)	(NA)
Alaska	(D)	(D)	(NA)	(NA)	New Hampshire	(D)	(D)	(NA)	(NA)
Arizona	1.0	29.7	.5	10.0	New Jersey	1.4	58.1	.7	17.7
Arkansas .....	.1	4.1	.1	1.3	New Mexico .....	.4	11.2	.2	4.0
California	11.4	427.7	4.7	109.7	New York	2.3	87.1	2.0	55.7
Colorado	11.7	426.9	3.2	75.7	North Carolina	(D)	(D)	.2	3.2
Connecticut	1.2	52.6	.6	22.7	North Dakota .....	.1	3.8	(NA)	(NA)
Delaware and District of Columbia	(D)	(D)	(D)	(D)	Ohio	2.1	73.6	(D)	(D)
Florida .....	.1	3.8	(D)	(D)	Oklahoma	23.4	777.6	9.8	165.7
Georgia	(D)	(D)	.1	1.8	Oregon	(D)	(D)	(NA)	(NA)
Idaho	(D)	(D)	(D)	(D)	Pennsylvania	4.6	135.6	12.8	53.9
Illinois	3.1	97.8	(D)	(D)	South Carolina .....	.1	1.9	.1	1.3
Indiana	1.0	31.0	(NA)	(NA)	South Dakota	(D)	(D)	(NA)	(NA)
Iowa .....	.2	4.1	.2	3.9	Tennessee .....	.3	8.3	.2	4.9
Kansas	1.9	74.9	1.1	20.1	Texas	49.9	1 632.4	25.8	558.9
Kentucky	1.4	33.8	.7	14.3	Utah .....	.5	15.5	(NA)	(NA)
Louisiana	11.5	389.4	7.1	148.7	Vermont	(D)	(D)	(NA)	(NA)
Maine	(D)	(D)	(NA)	(NA)	Virginia	1.3	41.3	1.0	16.4
Maryland	(D)	(D)	(D)	(D)	Washington .....	.1	2.4	.2	4.9
Massachusetts	(D)	(D)	.3	7.9	West Virginia	2.0	51.5	1.4	21.3
Michigan .....	.8	23.1	(NA)	(NA)	Wisconsin	(D)	(D)	(Z)	.7
Minnesota .....	.4	13.9	.4	8.9	Wyoming .....	.6	18.4	(D)	(D)
Mississippi	(D)	(D)	(NA)	(NA)					
Missouri	1.3	41.1	(D)	(D)					
Montana .....	.1	1.0	(NA)	(NA)					

Note: Figures in this table represent auxiliary establishments at different locations from establishments managed or served, or at same location as one of these establishments but not operated as an integral part of it. All figures in this table have been included in reports for States in which they are located.

Table 11. Number of Mineral Establishments by Employment Size, Industry Group, and Industry: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group and industry	Estab- lishments during year	Establishments during year with an average employment size of—										Estab- lishments during year covered by admin- istrative records
			0 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 or more	
	All mineral industries	73 005	44 713	9 985	8 036	6 159	2 193	1 274	413	181	45	6	10 871
10	Metal mining	1 515	829	203	155	119	64	79	39	15	11	1	386
1011	Iron ores	78	24	3	11	15	4	7	6	5	3	-	15
1021	Copper ores	81	13	6	11	9	11	9	9	7	5	1	9
1031	Lead and zinc ores	71	24	12	7	6	7	9	5	1	-	-	21
104	Gold and silver ores	371	202	58	31	36	16	18	9	-	1	-	123
1041	Gold ores	286	162	42	23	28	11	13	6	-	1	-	83
1044	Silver ores	85	40	16	8	8	5	5	3	-	-	-	40
1051	Bauxite and other aluminum ores	8	1	-	3	2	1	1	-	-	-	-	-
1061	Ferroalloy ores, except vanadium	69	40	10	3	5	2	5	1	1	2	-	36
1081	Metal mining services	394	280	52	40	16	1	5	-	-	-	-	34
109	Miscellaneous metal ores	443	245	62	49	30	22	25	9	1	-	-	148
1094	Uranium-radium-vanadium ores	215	79	29	36	22	17	23	8	1	-	-	54
1092	Mercury ores and metallic ores, n.e.c.	228	166	33	13	8	5	2	1	-	-	-	94
1099													
11	Anthracite mining	173	69	34	29	27	8	5	1	-	-	-	65
111	Anthracite mining	173	69	34	29	27	8	5	1	-	-	-	65
1111	Anthracite	152	60	28	24	26	8	5	1	-	-	-	58
1112	Anthracite mining services	21	9	6	5	1	-	-	-	-	-	-	7
12	Bituminous coal and lignite mining	5 005	1 358	744	1 047	945	353	297	177	73	11	-	1 183
121	Bituminous coal and lignite mining	5 005	1 358	744	1 047	945	353	297	177	73	11	-	1 183
1211	Bituminous coal and lignite	4 513	1 121	671	954	884	331	293	175	73	11	-	1 085
1213	Bituminous coal and lignite mining services ..	492	237	73	93	61	22	4	2	-	-	-	98
13	Oil and gas extraction	60 511	40 398	7 729	5 570	4 247	1 516	776	171	80	19	5	7 953
1311	Crude petroleum and natural gas	27 558	21 328	2 600	1 636	1 124	427	295	83	48	13	4	3 388
1321	Natural gas liquids	793	211	167	179	179	47	10	-	-	-	-	-
138	Oil and gas field services	32 160	18 859	4 962	3 755	2 944	1 042	471	88	32	6	1	4 565
1381	Drilling oil and gas wells	10 123	4 987	1 832	1 494	1 141	407	194	47	19	1	1	981
1382	Oil and gas field exploration services	4 228	2 994	538	307	236	95	45	7	4	2	-	984
1389	Oil and gas field services, n.e.c.	17 809	10 878	2 592	1 954	1 567	540	232	34	9	3	-	2 600
14	Nonmetallic minerals, except fuels	5 801	2 059	1 275	1 235	821	252	117	25	13	4	-	1 284
1411	Dimension stone	154	70	36	27	19	1	1	-	-	-	-	46
142	Crushed and broken stone, including riprap	1 932	420	393	552	418	109	37	3	-	-	-	287
1422	Crushed and broken limestone	1 314	256	264	416	275	70	31	2	-	-	-	189
1423	Crushed and broken granite	189	30	25	44	71	17	1	1	-	-	-	18
1429	Crushed and broken stone, n.e.c.	429	134	104	92	72	22	5	-	-	-	-	80
144	Sand and gravel	2 758	1 196	688	531	271	61	11	-	-	-	-	759
1442	Construction sand and gravel	2 552	1 132	644	501	230	39	6	-	-	-	-	707
1446	Industrial sand	206	64	44	30	41	22	5	-	-	-	-	52
145	Clay, ceramic, and refractory minerals	224	63	33	31	41	29	20	5	2	-	-	50
1452	Bentonite	33	4	5	8	6	5	5	-	-	-	-	5
1453	Fire clay	33	16	8	4	4	-	1	-	-	-	-	8
1454	Fuller's earth	13	2	-	1	-	6	2	2	-	-	-	-
1455	Kaolin and ball clay	49	5	3	4	14	9	9	3	2	-	-	4
1459	Clay, ceramic, and refractory minerals, n.e.c. ..	96	36	17	14	17	9	3	-	-	-	-	33
147	Chemical and fertilizer mineral mining	196	37	26	19	19	26	38	16	11	4	-	22
1472	Barite	41	13	8	7	5	6	2	-	-	-	-	6
1473	Fluorspar	8	1	3	1	2	-	1	-	-	-	-	3
1474	Potash, soda, and borate minerals	37	4	2	3	3	5	5	6	6	3	-	3
1475	Phosphate rock	48	6	6	3	5	6	13	3	5	1	-	3
1476	Rock salt	30	6	3	3	3	4	7	4	-	-	-	6
1477	Sulfur	20	3	-	1	1	5	7	3	-	-	-	-
1479	Chemical and fertilizer mineral mining, n.e.c. ..	12	4	4	1	-	-	3	-	-	-	-	1
1481	Nonmetallic minerals services	222	126	44	34	17	1	-	-	-	-	-	31
149	Miscellaneous nonmetallic minerals	315	147	55	41	36	25	10	1	-	-	-	89
1492	Gypsum	30	13	6	7	4	-	-	-	-	-	-	9
1496	Talc, soapstone, and pyrophyllite	27	6	2	3	9	5	2	-	-	-	-	2
1499	Miscellaneous nonmetallic minerals, n.e.c.	258	128	47	31	23	20	8	1	-	-	-	78

Table 12. Number of Mineral Establishments by Employment Size for States and Offshore Areas: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area	Estab- lishments during year	Establishments during year with an average employment size of—										Estab- lishments during year covered by admin- istrative records
		0 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 or more	
United States	73 005	44 713	9 985	8 036	6 159	2 193	1 274	413	181	45	6	10 871
Alabama	596	320	89	72	63	25	13	5	8	1	—	70
Alaska	236	106	27	15	38	18	20	6	5	1	—	20
Arizona	291	155	49	33	20	10	10	4	6	3	1	72
Arkansas	862	609	105	90	39	14	5	—	—	—	—	113
California	2 196	1 065	338	302	254	140	68	18	9	1	1	387
Colorado	2 424	1 418	348	259	225	83	59	25	1	6	—	359
Connecticut	96	49	12	11	15	5	4	—	—	—	—	26
Delaware and District of Columbia	34	24	3	4	2	1	—	—	—	—	—	8
Florida	376	199	67	34	34	19	14	4	4	1	—	107
Georgia	210	68	40	29	37	21	9	4	2	—	—	37
Hawaii	12	6	1	1	3	1	—	—	—	—	—	2
Idaho	191	124	18	19	17	4	7	2	—	—	—	43
Illinois	1 682	1 027	266	190	100	35	32	21	10	1	—	334
Indiana	711	405	118	90	63	19	6	9	1	—	—	133
Iowa	216	100	53	37	21	3	2	—	—	—	—	52
Kansas	4 451	3 550	411	268	177	33	10	1	1	—	—	502
Kentucky	2 139	872	340	397	336	91	60	32	10	1	—	563
Louisiana	5 606	3 337	731	564	545	219	147	41	18	4	—	519
Maine	28	20	2	5	1	—	—	—	—	—	—	11
Maryland	141	55	28	28	22	6	1	—	1	—	—	38
Massachusetts	118	54	30	21	9	4	—	—	—	—	—	26
Michigan	941	582	148	120	56	22	7	3	3	—	—	166
Minnesota	170	75	33	27	20	5	1	3	3	3	—	36
Mississippi	1 374	962	178	119	82	24	8	1	—	—	—	165
Missouri	394	188	77	64	31	19	8	6	1	—	—	121
Montana	1 148	843	120	98	65	12	6	3	1	—	—	151
Nebraska	434	320	49	41	19	3	2	—	—	—	—	75
Nevada	334	189	60	32	24	13	11	4	1	—	—	54
New Hampshire	28	9	8	8	2	1	—	—	—	—	—	5
New Jersey	165	69	21	35	22	13	4	—	1	—	—	35
New Mexico	1 581	951	196	184	141	56	38	9	6	—	—	199
New York	598	329	109	90	42	11	13	4	—	—	—	153
North Carolina	179	61	24	34	42	12	5	1	—	—	—	41
North Dakota	1 037	710	128	96	65	26	11	1	—	—	—	90
Ohio	2 196	1 199	422	320	166	46	27	10	5	1	—	405
Oklahoma	9 144	6 065	1 191	823	695	240	103	16	5	4	2	1 236
Oregon	216	135	41	21	14	4	—	1	—	—	—	54
Pennsylvania	1 905	915	305	300	197	86	72	16	10	4	—	524
Rhode Island	20	8	6	4	2	—	—	—	—	—	—	4
South Carolina	79	22	13	18	19	6	1	—	—	—	—	7
South Dakota	143	105	19	10	4	3	1	—	—	1	—	13
Tennessee	555	247	83	108	82	22	9	4	—	—	—	151
Texas	21 262	13 898	2 737	2 058	1 574	572	301	74	39	7	2	2 580
Utah	788	436	127	104	65	27	16	9	1	3	—	129
Vermont	46	21	5	8	8	3	1	—	—	—	—	10
Virginia	916	232	143	262	193	43	30	11	1	1	—	198
Washington	242	153	45	23	13	4	2	1	1	—	—	87
West Virginia	2 104	1 054	272	276	267	93	77	45	20	—	—	461
Wisconsin	208	111	40	33	17	6	1	—	—	—	—	75
Wyoming	2 101	1 237	300	241	198	61	43	14	5	2	—	224
Offshore areas not associated with a particular State	81	24	9	10	13	9	9	5	2	—	—	—
North and Mid-Atlantic Offshore	20	8	2	3	4	1	2	—	—	—	—	—
South Atlantic Offshore	9	7	—	—	—	1	—	1	—	—	—	—
Northern Gulf of Mexico Offshore	41	6	7	6	7	6	4	4	1	—	—	—
Pacific Offshore	11	3	—	1	2	1	3	—	1	—	—	—

Table 13. Industry Statistics by Employment Size of Establishment: 1982

For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Major group and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
				Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
0	All mineral industries -----	E1	73 005	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8
	Establishments during year with an average of—											
	0 to 4 employees -----	E1	44 713	54.4	1 180.6	41.9	88.0	877.8	32 165.3	15 473.9	35 794.1	11 845.1
	5 to 9 employees -----	E2	9 985	66.5	1 443.4	49.6	104.9	1 032.3	11 831.5	8 619.7	17 689.9	2 761.4
	10 to 19 employees -----	E2	8 036	109.9	2 450.8	83.4	173.0	1 760.6	18 054.6	11 710.7	25 903.5	3 861.7
	20 to 49 employees -----	E1	6 159	186.9	4 343.6	140.8	293.3	3 097.1	28 778.4	24 524.6	47 189.7	6 113.3
	50 to 99 employees -----	-	2 193	149.5	3 709.7	107.8	226.6	2 466.4	23 856.8	18 154.4	35 904.7	6 106.6
	100 to 249 employees -----	-	1 274	193.6	5 200.4	127.1	270.1	3 152.7	28 252.5	13 645.3	34 642.6	7 255.1
	250 to 499 employees -----	-	413	145.0	4 161.6	96.9	199.6	2 594.9	17 069.7	6 650.6	20 605.9	3 114.4
	500 to 999 employees -----	-	181	120.2	3 660.7	75.0	151.2	2 073.3	22 415.8	8 348.7	25 266.5	5 498.0
	1,000 to 2,499 employees -----	-	45	87.6	2 486.6	39.7	71.2	975.0	5 630.4	2 569.5	7 002.6	1 197.2
	2,500 employees or more -----	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Covered by administrative records ² -----	E9	10 871	23.0	302.7	19.1	37.5	259.2	2 078.5	996.9	2 922.4	153.0
	Metal mining -----	-	1 515	68.1	1 860.3	46.8	89.7	1 222.2	3 214.4	3 233.7	5 287.2	1 160.9
	Establishments during year with an average of—											
11	0 to 4 employees -----	E6	829	1.2	22.8	1.0	2.0	17.8	62.6	26.4	70.1	18.9
	5 to 9 employees -----	E6	203	1.4	28.7	1.0	2.0	20.0	54.4	25.3	62.8	16.9
	10 to 19 employees -----	E4	155	2.1	55.3	1.3	2.7	29.2	56.1	249.5	89.2	182.3
	20 to 49 employees -----	E3	119	3.6	94.1	2.2	4.7	53.9	181.2	(D)	215.3	(D)
	50 to 99 employees -----	E1	64	4.5	122.4	2.6	5.1	60.6	219.4	126.8	261.3	84.9
	100 to 249 employees -----	-	79	55.3	1 537.0	38.6	73.2	1 040.7	2 640.7	2 805.6	4 588.5	857.8
	250 to 499 employees -----	-	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	500 to 999 employees -----	-	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	1,000 to 2,499 employees -----	-	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	2,500 employees or more -----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Covered by administrative records ² -----	E9	386	.8	12.1	.7	1.5	10.7	43.0	13.5	47.1	9.4
	Anthracite mining -----	E1	173	3.5	69.0	3.0	5.7	57.3	176.4	140.2	293.3	23.3
	Establishments during year with an average of—											
	0 to 4 employees -----	E6	69	.1	1.8	.1	.2	1.7	5.7	5.7	10.5	.9
12	5 to 9 employees -----	E2	34	.2	3.4	.2	.3	2.8	10.0	12.1	20.5	1.7
	10 to 19 employees -----	E1	29	1.2	22.3	1.0	1.8	17.6	69.4	60.8	118.9	11.3
	20 to 49 employees -----	-	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	50 to 99 employees -----	E1	8	.6	10.3	.4	.9	8.1	27.3	19.5	43.0	3.8
	100 to 249 employees -----	-	5	1.4	31.3	1.2	2.6	27.2	64.0	42.1	100.5	5.6
	250 to 499 employees -----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Covered by administrative records ² -----	E9	65	.2	1.8	.2	.3	1.8	6.6	4.4	9.7	1.2
	Bituminous coal and lignite mining -----	E1	5 005	247.7	6 736.3	198.3	380.3	5 187.6	18 454.7	13 005.3	28 260.7	3 199.2
	Establishments during year with an average of—											
	0 to 4 employees -----	E6	1 358	2.4	45.7	2.0	3.4	38.1	157.3	139.0	258.4	37.9
	5 to 9 employees -----	E5	744	5.1	99.2	4.1	7.4	74.6	301.9	253.8	487.1	68.6
	10 to 19 employees -----	E3	1 047	14.6	299.6	12.0	21.4	231.6	870.4	710.7	1 414.2	166.9
	20 to 49 employees -----	E2	945	28.9	670.0	23.4	43.5	515.6	2 051.8	1 899.5	3 527.1	424.3
	50 to 99 employees -----	E1	353	24.2	640.2	18.0	35.1	454.6	1 861.1	2 097.2	3 499.6	458.6
	100 to 249 employees -----	-	297	111.2	3 192.2	87.8	173.2	2 451.3	8 686.4	5 659.0	13 010.5	1 334.8
	250 to 499 employees -----	-	177	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	500 to 999 employees -----	-	73	47.1	1 360.5	40.2	76.5	1 120.4	3 604.3	1 696.4	4 805.3	495.3
	1,000 to 2,499 employees -----	-	11	14.3	428.8	10.8	19.8	301.3	921.5	549.6	1 258.5	212.7
	Covered by administrative records ² -----	E9	1 183	4.2	55.9	3.7	6.2	48.5	177.3	88.7	231.7	34.3
13	Oil and gas extraction -----	E1	60 511	684.5	17 693.3	434.0	938.6	10 033.0	159 936.6	89 369.6	207 090.7	42 215.5
	Establishments during year with an average of—											
	0 to 4 employees -----	E1	40 398	46.8	1 043.7	35.6	76.0	765.4	31 730.8	15 194.0	35 172.5	11 752.3
	5 to 9 employees -----	E2	7 729	51.2	1 159.9	37.9	82.5	822.6	11 073.3	8 102.8	16 570.8	2 605.3
	10 to 19 employees -----	E1	5 570	75.8	1 778.0	57.1	123.6	1 273.5	16 312.3	10 462.2	23 261.3	3 513.2
	20 to 49 employees -----	E1	4 247	129.1	3 103.3	96.0	206.0	2 194.0	25 311.3	21 616.1	41 552.7	5 374.7
	50 to 99 employees -----	-	1 516	102.9	2 594.6	73.9	158.7	1 710.9	20 849.1	24 493.4	30 748.0	11 271.5
	100 to 249 employees -----	-	776	114.4	3 049.6	69.7	153.6	1 654.6	22 697.6	(D)	26 020.5	(D)
	250 to 499 employees -----	-	171	59.2	1 736.0	31.1	70.3	801.8	10 936.8	3 121.7	11 860.0	2 198.5
	500 to 999 employees -----	-	80	54.1	1 780.7	21.6	48.4	606.2	17 635.2	5 577.5	18 499.9	4 712.8
	1,000 to 2,499 employees -----	-	19	51.1	1 447.6	11.2	19.4	204.1	3 390.0	802.0	3 404.9	787.1
	2,500 employees or more -----	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Covered by administrative records ² -----	E9	7 953	14.7	195.7	11.9	24.3	165.8	1 732.9	823.9	2 467.6	89.1
	Nonmetallic minerals, except fuels -----	E1	5 801	109.8	2 278.5	80.1	163.5	1 529.9	6 273.0	3 948.6	9 067.7	1 153.9
	Establishments during year with an average of—											
14	0 to 4 employees -----	E6	2 059	4.0	66.7	3.2	6.4	54.7	208.8	108.7	282.5	35.1
	5 to 9 employees -----	E3	1 275	8.6	152.1	6.5	12.7	112.2	392.0	225.6	548.7	68.9
	10 to 19 employees -----	E2	1 205	41.5	771.8	31.3	62.7	542.3	1 980.6	1 236.3	2 914.6	302.4
	20 to 49 employees -----	E1	821	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	50 to 99 employees -----	E1	252	17.4	342.2	12.7	26.8	232.3	899.9	1 260.8	1 352.8	419.4
	100 to 249 employees -----	-	117	17.5	411.8	12.2	26.0	250.7	1 046.7	(D)	1 435.2	(D)
	250 to 499 employees -----	-	25	20.8	533.9	14.3	28.9	337.8	1 745.1	1 117.0	2 533.9	328.2
	500 to 999 employees -----	-	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	1,000 to 2,499 employees -----	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Covered by administrative records ² -----	E9	1 284	3.1	37.3	2.6	5.3	32.5	118.7	66.5	166.3	18.9

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Table 14. Selected Statistics by Type of Operation and Industry: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group, industry, and item	All types of operations	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments ----- number...	73 005	71 666	30 194	3 171	854	26 169	4 394	480	3 629	285	948	36 130	1 339
	Employees ----- 1,000...	1 113.6	1 102.1	255.6	(D)	21.2	(D)	271.1	109.6	130.4	31.1	21.7	553.8	11.5
	Value added in mining ---- mil. dol...	188 055.0	187 577.3	131 663.9	(D)	1 477.5	(D)	20 408.0	7 456.5	10 409.5	2 542.1	9 371.3	26 134.0	477.7
10	METAL MINING													
	Establishments ----- number...	1 515	1 336	247	189	57	1	150	52	87	11	20	919	179
	Employees ----- 1,000...	68.1	63.9	7.6	(D)	4.3	(D)	40.8	15.3	21.9	3.6	3.1	12.4	4.2
	Value added in mining ---- mil. dol...	3 214.4	3 094.1	301.2	(D)	144.0	(D)	2 498.7	766.0	1 507.0	225.7	86.4	207.8	120.3
1011	Iron ores													
	Establishments ----- number...	78	70	30	-	30	-	19	1	18	-	3	18	8
	Employees ----- 1,000...	11.7	11.6	(D)	-	(D)	-	8.4	(D)	(D)	-	(D)	1.3	.1
	Value added in mining ---- mil. dol...	770.3	771.2	(D)	-	(D)	-	711.4	(D)	(D)	-	(D)	-	-9
1021	Copper ores													
	Establishments ----- number...	81	67	21	-	21	-	23	5	15	3	3	20	14
	Employees ----- 1,000...	21.9	21.1	(D)	-	(D)	-	(D)	(D)	8.5	(D)	(D)	2.1	.7
	Value added in mining ---- mil. dol...	671.7	652.8	(D)	-	(D)	-	(D)	(D)	323.7	(D)	(D)	-	18.8
1031	Lead and zinc ores													
	Establishments ----- number...	71	54	30	30	-	-	13	13	-	-	1	10	17
	Employees ----- 1,000...	4.3	(D)	(D)	(D)	-	-	3.0	3.0	-	-	(D)	.6	(D)
	Value added in mining ---- mil. dol...	200.6	(D)	(D)	(D)	-	-	196.8	196.8	-	-	(D)	-	(D)
104	Gold and silver ores													
	Establishments ----- number...	371	311	57	57	-	-	60	22	37	1	2	192	60
	Employees ----- 1,000...	10.4	(D)	.3	.3	-	-	(D)	3.6	(D)	(D)	(D)	(D)	(D)
	Value added in mining ---- mil. dol...	649.7	(D)	7.0	7.0	-	-	(D)	216.5	(D)	(D)	(D)	(D)	(D)
1041	Gold ores													
	Establishments ----- number...	286	230	-	-	-	-	41	8	33	-	1	188	56
	Employees ----- 1,000...	7.7	7.0	-	-	-	-	4.5	1.8	2.7	-	(D)	(D)	.8
	Value added in mining ---- mil. dol...	479.2	425.1	-	-	-	-	368.6	77.3	291.2	-	(D)	(D)	54.1
1044	Silver ores													
	Establishments ----- number...	85	81	57	57	-	-	19	14	4	1	1	4	4
	Employees ----- 1,000...	2.6	(D)	.3	.3	-	-	(D)	1.8	(D)	(D)	(D)	(D)	(D)
	Value added in mining ---- mil. dol...	170.6	(D)	7.0	7.0	-	-	(D)	139.2	(D)	(D)	(D)	-	(D)
1051	Bauxite and other aluminum ores													
	Establishments ----- number...	8	8	4	-	4	-	1	-	1	-	2	1	-
	Employees ----- 1,000...	.3	.3	(D)	-	(D)	-	(D)	-	(D)	-	(D)	(D)	-
	Value added in mining ---- mil. dol...	15.4	15.4	(D)	-	(D)	-	(D)	-	(D)	-	(D)	-	-
1061	Ferroalloy ores, except vanadium													
	Establishments ----- number...	69	61	1	-	1	-	6	5	-	1	-	54	8
	Employees ----- 1,000...	4.7	(D)	(D)	-	(D)	-	(D)	(D)	-	(D)	-	(D)	(D)
	Value added in mining ---- mil. dol...	145.8	(D)	(D)	-	(D)	-	(D)	(D)	-	(D)	-	(D)	(D)
1081	Metal mining services													
	Establishments ----- number...	394	394	-	-	-	-	-	-	-	-	-	394	-
	Employees ----- 1,000...	2.5	2.5	-	-	-	-	-	-	-	-	-	2.5	-
	Value added in mining ---- mil. dol...	89.5	89.5	-	-	-	-	-	-	-	-	-	89.5	-
109	Miscellaneous metal ores													
	Establishments ----- number...	443	371	104	102	1	1	28	6	16	6	9	230	72
	Employees ----- 1,000...	12.3	10.8	(D)	2.5	(D)	(D)	5.2	1.9	(D)	(D)	(D)	(D)	1.4
	Value added in mining ---- mil. dol...	671.4	610.4	(D)	134.7	(D)	(D)	410.6	105.5	(D)	(D)	(D)	(D)	60.9
1094	Uranium-radium-vanadium ores													
	Establishments ----- number...	215	162	103	101	1	1	20	4	10	6	8	31	53
	Employees ----- 1,000...	10.5	9.2	2.6	(D)	(D)	(D)	4.6	(D)	1.6	(D)	.4	1.6	1.3
	Value added in mining ---- mil. dol...	578.8	519.8	149.0	(D)	(D)	(D)	364.3	(D)	129.3	(D)	6.5	-	59.1
1092 1099	Mercury ores and metallic ores, n.e.c.													
	Establishments ----- number...	228	209	1	1	-	-	8	2	6	-	1	199	19
	Employees ----- 1,000...	1.8	1.6	(D)	(D)	-	-	.7	(D)	(D)	-	(D)	(D)	.1
	Value added in mining ---- mil. dol...	92.5	90.6	(D)	(D)	-	-	46.3	(D)	(D)	-	(D)	(D)	1.9

See footnotes at end of table.

Table 14. Selected Statistics by Type of Operation and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group, industry, and item	All types of operations	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
11	ANTHRACITE MINING													
	Establishments..... number...	173	169	101	84	14	3	26	1	6	19	18	24	4
	Employees..... 1,000...	3.5	(D)	(D)	(D)	.5	(D)	1.9	(D)	(D)	1.6	.3	(D)	(D)
	Value added in mining..... mil. dol...	176.4	(D)	(D)	(D)	17.7	(D)	109.2	(D)	(D)	86.0	16.9	4.7	(D)
111	Anthracite mining													
	Establishments..... number...	173	169	101	84	14	3	26	1	6	19	18	24	4
	Employees..... 1,000...	3.5	(D)	(D)	(D)	.5	(D)	1.9	(D)	(D)	1.6	.3	(D)	(D)
	Value added in mining..... mil. dol...	176.4	(D)	(D)	(D)	17.7	(D)	109.2	(D)	(D)	86.0	16.9	4.7	(D)
1111	Anthracite													
	Establishments..... number...	152	148	101	84	14	3	26	1	6	19	18	3	4
	Employees..... 1,000...	3.4	(D)	(D)	(D)	.5	(D)	1.9	(D)	(D)	1.6	.3	(D)	(D)
	Value added in mining..... mil. dol...	171.7	(D)	(D)	(D)	17.7	(D)	109.2	(D)	(D)	86.0	16.9	-	(D)
1112	Anthracite mining services													
	Establishments..... number...	21	21	-	-	-	-	-	-	-	-	-	21	-
	Employees..... 1,000...	.1	.1	-	-	-	-	-	-	-	-	-	.1	-
	Value added in mining..... mil. dol...	4.7	4.7	-	-	-	-	-	-	-	-	-	4.7	-
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments..... number...	5 005	4 876	3 259	2 894	321	44	777	339	334	104	112	728	129
	Employees..... 1,000...	247.7	246.4	78.5	62.5	12.3	3.7	142.5	83.3	39.6	19.5	4.4	21.0	1.3
	Value added in mining..... mil. dol...	18 454.7	18 399.4	5 203.5	3 761.6	1 140.4	301.5	12 422.6	5 912.6	4 766.1	1 744.0	359.8	413.4	55.3
121	Bituminous coal and lignite mining													
	Establishments..... number...	5 005	4 876	3 259	2 894	321	44	777	339	334	104	112	728	129
	Employees..... 1,000...	247.7	246.4	78.5	62.5	12.3	3.7	142.5	83.3	39.6	19.5	4.4	21.0	1.3
	Value added in mining..... mil. dol...	18 454.7	18 399.4	5 203.5	3 761.6	1 140.4	301.5	12 422.6	5 912.6	4 766.1	1 744.0	359.8	413.4	55.3
1211	Bituminous coal and lignite													
	Establishments..... number...	4 513	4 384	3 259	2 894	321	44	777	339	334	104	112	236	129
	Employees..... 1,000...	240.9	239.7	78.5	62.5	12.3	3.7	142.5	83.3	39.6	19.5	4.4	14.2	1.3
	Value added in mining..... mil. dol...	18 041.2	17 986.0	5 203.5	3 761.6	1 140.4	301.5	12 422.6	5 912.6	4 766.1	1 744.0	359.8	-	55.3
1213	Bituminous coal and lignite mining services													
	Establishments..... number...	492	492	-	-	-	-	-	-	-	-	-	492	-
	Employees..... 1,000...	6.8	6.8	-	-	-	-	-	-	-	-	-	6.8	-
	Value added in mining..... mil. dol...	413.4	413.4	-	-	-	-	-	-	-	-	-	413.4	-
13	OIL AND GAS EXTRACTION													
	Establishments..... number...	60 511	59 626	26 105	-	-	26 105	10	-	-	10	753	32 758	885
	Employees..... 1,000...	684.5	679.5	162.6	-	-	162.6	.4	-	-	.4	12.9	503.6	5.0
	Value added in mining..... mil. dol...	159 936.6	159 660.7	125 712.5	-	-	125 712.5	.7	-	-	.7	8 864.7	25 082.7	276.0
1311	Crude petroleum and natural gas													
	Establishments..... number...	27 558	26 683	26 105	-	-	26 105	10	-	-	10	-	568	875
	Employees..... 1,000...	264.2	259.2	162.6	-	-	162.6	.4	-	-	.4	-	96.2	5.0
	Value added in mining..... mil. dol...	126 035.2	125 759.4	125 712.5	-	-	125 712.5	.7	-	-	.7	-	46.1	275.9
1321	Natural gas liquids													
	Establishments..... number...	793	783	-	-	-	-	-	-	-	-	753	30	10
	Employees..... 1,000...	14.2	14.2	-	-	-	-	-	-	-	-	12.9	1.3	(Z)
	Value added in mining..... mil. dol...	8 864.8	8 864.7	-	-	-	-	-	-	-	-	8 864.7	-	.1
138	Oil and gas field services													
	Establishments..... number...	32 160	32 160	-	-	-	-	-	-	-	-	-	32 160	-
	Employees..... 1,000...	406.1	406.1	-	-	-	-	-	-	-	-	-	406.1	-
	Value added in mining..... mil. dol...	25 036.6	25 036.6	-	-	-	-	-	-	-	-	-	25 036.6	-
1381	Drilling oil and gas wells													
	Establishments..... number...	10 123	10 123	-	-	-	-	-	-	-	-	-	10 123	-
	Employees..... 1,000...	165.5	165.5	-	-	-	-	-	-	-	-	-	165.5	-
	Value added in mining..... mil. dol...	11 315.6	11 315.6	-	-	-	-	-	-	-	-	-	11 315.6	-
1382	Oil and gas field exploration services													
	Establishments..... number...	4 228	4 228	-	-	-	-	-	-	-	-	-	4 228	-
	Employees..... 1,000...	41.8	41.8	-	-	-	-	-	-	-	-	-	41.8	-
	Value added in mining..... mil. dol...	2 306.4	2 306.4	-	-	-	-	-	-	-	-	-	2 306.4	-
1389	Oil and gas field services, n.e.c.													
	Establishments..... number...	17 809	17 809	-	-	-	-	-	-	-	-	-	17 809	-
	Employees..... 1,000...	198.9	198.9	-	-	-	-	-	-	-	-	-	198.9	-
	Value added in mining..... mil. dol...	11 414.6	11 414.6	-	-	-	-	-	-	-	-	-	11 414.6	-

See footnotes at end of table.

Table 14. **Selected Statistics by Type of Operation and Industry: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group, industry, and item	All types of operations	Producing establishments										Non-producing establishments	
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed ¹
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments..... number...	5 801	5 659	482	4	462	16	3 431	88	3 202	141	45	1 701	142
	Employees 1,000...	109.8	(D)	(D)	(D)	4.2	(D)	85.5	(D)	(D)	6.0	1.0	(D)	(D)
	Value added in mining mil. dol...	6 273.0	(D)	(D)	(D)	175.5	(D)	5 376.7	(D)	(D)	485.6	43.5	425.4	(D)
1411	Dimension stone													
	Establishments..... number...	154	149	132	-	132	-	13	-	13	-	-	4	5
	Employees 1,000...	1.5	1.5	1.2	-	1.2	-	.2	-	.2	-	-	.1	(Z)
	Value added in mining mil. dol...	50.2	50.2	43.3	-	43.3	-	7.0	-	7.0	-	-	-	(Z)
142	Crushed and broken stone, including riprap													
	Establishments..... number...	1 932	1 894	36	-	34	2	1 733	46	1 672	15	21	104	38
	Employees 1,000...	36.8	36.6	.3	-	(D)	(D)	33.6	1.5	31.5	.7	.3	2.4	.2
	Value added in mining mil. dol...	1 787.2	1 782.5	15.4	-	(D)	(D)	1 753.1	70.9	1 645.5	36.8	14.0	-	4.8
1422	Crushed and broken limestone													
	Establishments..... number...	1 314	1 293	21	-	20	1	1 195	41	1 142	12	15	62	21
	Employees 1,000...	25.8	25.6	.2	-	(D)	(D)	23.7	1.2	21.9	.6	.2	1.5	.2
	Value added in mining mil. dol...	1 228.7	1 223.3	7.4	-	(D)	(D)	1 205.4	56.6	1 115.9	32.9	10.4	-	5.4
1423	Crushed and broken granite													
	Establishments..... number...	189	186	3	-	3	-	176	-	176	-	1	6	3
	Employees 1,000...	4.5	4.5	(D)	-	(D)	-	4.2	-	4.2	-	(D)	.2	(Z)
	Value added in mining mil. dol...	259.0	259.0	(D)	-	(D)	-	253.4	-	253.4	-	(D)	-	-
1429	Crushed and broken stone, n.e.c.													
	Establishments..... number...	429	415	12	-	11	1	362	5	354	3	5	36	14
	Employees 1,000...	6.5	6.4	(D)	-	.1	(D)	5.7	.3	5.3	.1	(D)	.6	(Z)
	Value added in mining mil. dol...	299.6	300.2	(D)	-	3.0	(D)	294.4	14.3	276.2	3.9	(D)	-	-6
144	Sand and gravel													
	Establishments..... number...	2 758	2 687	124	-	117	7	1 234	6	1 132	96	13	1 316	71
	Employees 1,000...	27.8	(D)	1.0	-	.9	(Z)	(D)	(D)	16.2	1.6	(D)	8.2	(D)
	Value added in mining mil. dol...	1 335.6	(D)	40.2	-	38.0	2.2	(D)	(D)	856.1	68.1	(D)	354.9	(D)
1442	Construction sand and gravel													
	Establishments..... number...	2 552	2 489	124	-	117	7	1 050	3	954	93	10	1 305	63
	Employees 1,000...	23.4	23.0	1.0	-	.9	(Z)	14.0	(D)	12.5	(D)	.2	7.9	.4
	Value added in mining mil. dol...	1 112.1	1 106.6	40.2	-	38.0	2.2	705.0	(D)	641.5	(D)	6.6	354.9	5.5
1446	Industrial sand													
	Establishments..... number...	206	198	-	-	-	-	184	3	178	3	3	11	8
	Employees 1,000...	4.3	(D)	-	-	-	-	(D)	.1	3.7	(D)	(D)	.3	(D)
	Value added in mining mil. dol...	223.5	(D)	-	-	-	-	(D)	2.6	214.6	(D)	(D)	-	(D)
145	Clay, ceramic, and refractory minerals													
	Establishments..... number...	224	216	96	-	96	-	99	-	97	2	-	21	8
	Employees 1,000...	10.5	10.4	(D)	-	(D)	-	(D)	-	(D)	(D)	-	1.1	.1
	Value added in mining mil. dol...	509.8	509.9	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	-2
1452	Bentonite													
	Establishments..... number...	33	30	8	-	8	-	17	-	17	-	-	5	3
	Employees 1,000...	1.4	(D)	(D)	-	(D)	-	.9	-	.9	-	-	(D)	(D)
	Value added in mining mil. dol...	63.8	(D)	(D)	-	(D)	-	58.5	-	58.5	-	-	-	(D)
1453	Fire clay													
	Establishments..... number...	33	32	22	-	22	-	9	-	9	-	-	1	1
	Employees 1,000...	.4	(D)	(D)	-	(D)	-	.3	-	.3	-	-	(D)	(D)
	Value added in mining mil. dol...	17.0	(D)	(D)	-	(D)	-	13.9	-	13.9	-	-	-	(D)
1454	Fuller's earth													
	Establishments..... number...	13	13	3	-	3	-	9	-	9	-	-	1	-
	Employees 1,000...	1.3	1.3	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining mil. dol...	53.4	53.4	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
1455	Kaolin and ball clay													
	Establishments..... number...	49	49	7	-	7	-	32	-	32	-	-	10	-
	Employees 1,000...	5.3	5.3	.1	-	.1	-	4.6	-	4.6	-	-	.6	-
	Value added in mining mil. dol...	301.5	301.5	3.8	-	3.8	-	297.6	-	297.6	-	-	-	-
1459	Clay, ceramic, and refractory minerals, n.e.c.													
	Establishments..... number...	96	92	56	-	56	-	32	-	30	2	-	4	4
	Employees 1,000...	2.1	(D)	(D)	-	(D)	-	(D)	-	1.4	(D)	-	(D)	(D)
	Value added in mining mil. dol...	74.1	(D)	(D)	-	(D)	-	(D)	-	56.5	(D)	-	-	(D)

See footnotes at end of table.

Table 14. Selected Statistics by Type of Operation and Industry: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group, industry, and item	All types of operations	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
147	Chemical and fertilizer mineral mining													
	Establishments----- number--	196	186	59	3	50	6	91	27	48	16	8	28	10
	Employees ----- 1,000----	25.6	25.5	2.0	(D)	(D)	(D)	20.0	(D)	8.2	(D)	(D)	(D)	.1
	Value added in mining ---- mil. dol---	2 237.2	2 219.6	242.9	(D)	(D)	(D)	1 958.5	(D)	928.6	(D)	18.2	-	17.6
1472	Barite													
	Establishments----- number--	41	39	20	-	20	-	18	-	18	-	-	1	2
	Employees ----- 1,000----	1.1	(D)	(D)	-	(D)	-	1.0	-	1.0	-	-	(D)	(D)
	Value added in mining ---- mil. dol---	81.4	(D)	(D)	-	(D)	-	78.5	-	78.5	-	-	-	(D)
1473	Flourspar													
	Establishments----- number--	8	8	5	-	5	-	2	2	-	-	1	-	-
	Employees ----- 1,000----	.3	.3	(D)	-	(D)	-	(D)	(D)	-	-	(D)	-	-
	Value added in mining ---- mil. dol---	10.9	10.9	(D)	-	(D)	-	(D)	(D)	-	-	(D)	-	-
1474	Potash, soda, and borate minerals													
	Establishments----- number--	37	37	2	2	-	-	28	12	7	9	2	5	-
	Employees ----- 1,000----	10.5	10.5	(D)	(D)	-	-	(D)	6.6	(D)	1.9	(D)	.6	-
	Value added in mining ---- mil. dol---	954.3	954.3	(D)	(D)	-	-	(D)	525.7	(D)	168.4	(D)	-	-
1475	Phosphate rock													
	Establishments----- number--	48	41	7	1	6	-	25	1	22	2	3	6	7
	Employees ----- 1,000----	7.8	7.6	.2	(D)	(D)	-	6.4	(D)	(D)	(D)	.1	.9	.1
	Value added in mining ---- mil. dol---	732.5	714.2	6.3	(D)	(D)	-	698.6	(D)	(D)	(D)	9.3	-	18.3
1476	Rock salt													
	Establishments----- number--	30	30	11	-	10	1	12	12	-	-	1	6	-
	Employees ----- 1,000----	2.9	2.9	(D)	-	(D)	(D)	2.1	2.1	-	-	(D)	.7	-
	Value added in mining ---- mil. dol---	148.3	148.3	(D)	-	(D)	(D)	138.8	138.8	-	-	(D)	-	-
1477	Sulfur													
	Establishments----- number--	20	19	5	-	-	5	4	-	-	4	-	10	1
	Employees ----- 1,000----	2.6	(D)	(D)	-	-	(D)	(D)	-	-	(D)	-	(D)	(D)
	Value added in mining ---- mil. dol---	288.2	(D)	(D)	-	-	(D)	(D)	-	-	(D)	-	-	(D)
1479	Chemical and fertilizer mineral mining, n.e.c.													
	Establishments----- number--	12	12	9	-	9	-	2	-	1	1	1	-	-
	Employees ----- 1,000----	.5	.5	.2	-	.2	-	(D)	-	(D)	(D)	(D)	-	-
	Value added in mining ---- mil. dol---	21.6	21.6	7.4	-	7.4	-	(D)	-	(D)	(D)	(D)	-	-
1481	Nonmetallic minerals services													
	Establishments----- number--	222	222	-	-	-	-	-	-	-	-	-	222	-
	Employees ----- 1,000----	1.6	1.6	-	-	-	-	-	-	-	-	-	1.6	-
	Value added in mining ---- mil. dol---	70.4	70.4	-	-	-	-	-	-	-	-	-	70.4	-
149	Miscellaneous nonmetallic minerals													
	Establishments----- number--	315	305	35	1	33	1	261	9	240	12	3	6	10
	Employees ----- 1,000----	6.0	6.0	(D)	(D)	(D)	(D)	5.4	(D)	4.4	(D)	(D)	.1	(Z)
	Value added in mining ---- mil. dol---	282.5	283.0	(D)	(D)	(D)	(D)	260.9	(D)	210.0	(D)	(D)	-	-5
1492	Gypsum													
	Establishments----- number--	30	29	17	-	17	-	11	-	11	-	-	1	1
	Employees ----- 1,000----	.3	.3	(D)	-	(D)	-	.2	-	.2	-	-	(D)	(Z)
	Value added in mining ---- mil. dol---	20.5	20.5	8.5	-	8.5	-	12.0	-	12.0	-	-	-	-
1496	Talc, soapstone, and pyrophyllite													
	Establishments----- number--	27	26	14	1	12	1	9	2	5	2	3	-	1
	Employees ----- 1,000----	1.1	1.1	(D)	(D)	(D)	(D)	.7	(D)	.4	(D)	(D)	-	(Z)
	Value added in mining ---- mil. dol---	43.6	43.6	(D)	(D)	(D)	(D)	32.6	(D)	10.9	(D)	(D)	-	-
1499	Miscellaneous nonmetallic minerals, n.e.c.													
	Establishments----- number--	258	250	4	-	4	-	241	7	224	10	-	5	8
	Employees ----- 1,000----	4.6	4.6	(D)	-	(D)	-	4.5	.3	3.8	.4	-	(D)	(Z)
	Value added in mining ---- mil. dol---	218.3	218.8	2.5	-	2.5	-	216.3	16.9	187.1	12.4	-	-	-5

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on information available.

Table 15. Selected Statistics by Type of Operation for States and Offshore Areas: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
UNITED STATES													
Establishments.....number.....	73 005	71 666	30 194	3 171	854	26 169	4 394	480	3 629	285	948	36 130	1 339
Employees.....1,000.....	1 113.6	1 102.1	255.6	(D)	21.2	(D)	271.1	109.6	130.4	31.1	21.7	553.8	11.5
Value added in mining.....mil. dol.....	188 055.0	187 577.3	131 663.9	(D)	1 477.5	(D)	20 408.0	7 456.5	10 409.5	2 542.1	9 371.3	26 134.0	477.7
Alabama													
Establishments.....number.....	596	575	225	90	34	101	77	13	61	3	7	266	21
Employees.....1,000.....	15.9	15.8	3.3	1.8	(D)	(D)	9.9	(D)	3.4	(D)	(D)	(D)	(Z)
Value added in mining.....mil. dol.....	1 979.7	1 982.7	1 044.9	97.7	(D)	(D)	727.9	(D)	301.7	(D)	(D)	(D)	-3.0
Alaska													
Establishments.....number.....	236	201	30	1	-	29	13	-	13	-	2	156	35
Employees.....1,000.....	13.4	12.1	(D)	(D)	-	(D)	.3	-	.3	-	(D)	(D)	1.3
Value added in mining.....mil. dol.....	14 093.2	13 919.4	(D)	(D)	-	(D)	21.8	-	21.8	-	(D)	(D)	173.8
Arizona													
Establishments.....number.....	291	270	55	15	19	21	57	3	50	4	2	156	21
Employees.....1,000.....	16.6	16.3	.6	.2	.4	.1	13.5	(D)	8.8	(D)	(D)	(D)	.3
Value added in mining.....mil. dol.....	748.4	748.3	44.0	3.4	19.3	21.3	637.1	(D)	447.2	(D)	(D)	(D)	.1
Arkansas													
Establishments.....number.....	862	842	370	10	6	354	36	1	32	3	4	432	20
Employees.....1,000.....	5.4	(D)	1.4	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	.1	3.0	(D)
Value added in mining.....mil. dol.....	1 015.1	(D)	785.0	(D)	(D)	(D)	(D)	(D)	(D)	1.0	10.0	171.8	(D)
California													
Establishments.....number.....	2 196	2 141	667	22	32	613	219	9	200	10	45	1 210	55
Employees.....1,000.....	51.3	51.1	11.8	.3	.2	11.3	7.5	.4	5.6	1.4	.6	31.2	.2
Value added in mining.....mil. dol.....	11 844.3	11 817.8	9 683.4	8.0	16.7	9 658.6	681.8	8.9	548.3	124.5	262.5	1 190.1	26.6
Colorado													
Establishments.....number.....	2 424	2 326	889	79	22	788	102	20	74	8	23	1 312	98
Employees.....1,000.....	45.8	44.1	(D)	1.8	.5	(D)	8.1	3.8	2.7	1.6	(D)	25.9	1.7
Value added in mining.....mil. dol.....	3 098.3	3 007.9	(D)	112.5	53.7	(D)	504.9	244.6	202.2	58.1	(D)	860.0	90.4
Connecticut													
Establishments.....number.....	96	96	9	3	6	-	23	-	23	-	1	63	-
Employees.....1,000.....	1.9	1.9	(D)	(D)	(D)	-	.4	-	.4	-	(D)	1.5	-
Value added in mining.....mil. dol.....	47.3	47.3	(D)	(D)	(D)	-	19.9	-	19.9	-	(D)	25.4	-
Delaware and District of Columbia													
Establishments.....number.....	34	33	6	3	3	-	2	-	2	-	-	25	1
Employees.....1,000.....	.2	.2	(Z)	(D)	(D)	-	(D)	-	(D)	-	-	(D)	-
Value added in mining.....mil. dol.....	2.2	2.2	1.6	(D)	(D)	-	(D)	-	(D)	-	-	(D)	-
Florida													
Establishments.....number.....	376	355	88	13	8	67	116	1	108	7	6	145	21
Employees.....1,000.....	10.5	10.5	(D)	(D)	.1	(D)	8.5	(D)	8.0	(D)	(D)	1.2	.1
Value added in mining.....mil. dol.....	1 860.4	1 843.3	(D)	(D)	3.0	(D)	729.7	(D)	658.7	(D)	(D)	59.9	17.1
Georgia													
Establishments.....number.....	210	200	31	9	22	-	98	3	93	2	2	69	10
Employees.....1,000.....	7.6	(D)	.4	(D)	(D)	-	6.5	(D)	6.2	(D)	(D)	.6	(D)
Value added in mining.....mil. dol.....	430.1	(D)	17.1	(D)	(D)	-	398.7	(D)	382.6	(D)	(D)	13.8	(D)
Hawaii													
Establishments.....number.....	12	12	-	-	-	-	8	-	8	-	-	4	-
Employees.....1,000.....	.2	.2	-	-	-	-	(D)	-	(D)	-	-	(D)	-
Value added in mining.....mil. dol.....	9.7	9.7	-	-	-	-	(D)	-	(D)	-	-	(D)	-
Idaho													
Establishments.....number.....	191	176	25	16	7	2	35	7	27	1	1	115	15
Employees.....1,000.....	3.1	3.0	.1	(D)	.1	(D)	2.0	(D)	(D)	(D)	(D)	(D)	.1
Value added in mining.....mil. dol.....	199.5	210.0	2.8	(D)	1.2	(D)	167.4	(D)	(D)	(D)	(D)	(D)	-10.5
Illinois													
Establishments.....number.....	1 682	1 654	693	31	19	643	211	28	176	7	6	744	28
Employees.....1,000.....	31.3	31.0	6.3	2.5	.5	3.2	17.1	10.3	6.7	.1	(D)	(D)	.3
Value added in mining.....mil. dol.....	2 543.9	2 506.0	936.5	206.1	51.2	679.2	1 290.6	709.5	577.9	3.2	(D)	(D)	37.8
Indiana													
Establishments.....number.....	711	698	266	43	31	192	159	5	149	5	3	270	13
Employees.....1,000.....	10.3	10.2	(D)	.5	(D)	(D)	5.7	.2	5.4	.1	(D)	2.5	.1
Value added in mining.....mil. dol.....	785.8	785.9	(D)	34.7	(D)	(D)	468.0	6.5	456.9	4.7	(D)	92.3	-2.2
Iowa													
Establishments.....number.....	216	214	18	6	3	9	146	7	131	8	1	49	2
Employees.....1,000.....	2.1	(D)	.1	(Z)	(D)	(D)	1.7	.2	1.6	(Z)	(D)	.3	(D)
Value added in mining.....mil. dol.....	103.5	(D)	9.1	.4	(D)	(D)	90.1	8.5	79.0	2.6	(D)	3.9	(D)
Kansas													
Establishments.....number.....	4 451	4 428	2 254	5	9	2 240	69	5	60	4	22	2 083	23
Employees.....1,000.....	19.9	19.8	6.2	(Z)	(Z)	6.2	1.3	.2	1.1	(Z)	.4	11.9	.1
Value added in mining.....mil. dol.....	3 195.7	3 193.0	2 118.6	2.9	2.3	2 113.4	65.6	5.7	58.0	1.9	448.0	560.8	2.7

See footnotes at end of table.

Table 15. **Selected Statistics by Type of Operation for States and Offshore Areas: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
Kentucky													
Establishments.....number..	2 139	2 099	1 339	922	98	319	235	81	122	32	41	484	40
Employees.....1,000.....	54.2	53.8	26.4	18.5	4.4	3.5	22.0	12.2	5.4	4.4	1.3	4.2	.4
Value added in mining mil. dol...	4 141.9	4 141.4	1 929.2	1 075.7	464.9	388.5	1 776.8	889.1	479.2	408.5	273.9	161.4	.5
Louisiana													
Establishments.....number..	5 606	5 533	1 892	2	8	1 882	50	4	33	13	101	3 490	73
Employees.....1,000.....	102.4	(D)	22.2	(D)	(D)	22.0	(D)	(D)	(D)	(D)	(D)	75.8	(D)
Value added in mining mil. dol...	33 117.0	(D)	26 583.0	(D)	(D)	26 573.5	(D)	(D)	(D)	(D)	(D)	4 483.0	(D)
Maine													
Establishments.....number..	28	27	2	1	1	-	5	-	5	-	1	19	1
Employees.....1,000.....	.1	.1	(Z)	(Z)	(Z)	-	(Z)	-	(Z)	-	(D)	(D)	(Z)
Value added in mining mil. dol...	5.3	5.3	(Z)	(Z)	(Z)	-	2.9	-	2.9	-	(D)	(D)	(Z)
Maryland													
Establishments.....number..	141	137	45	25	13	7	44	1	43	-	1	47	4
Employees.....1,000.....	2.6	2.5	.3	.2	.2	(Z)	(D)	(D)	(D)	-	(D)	(D)	(Z)
Value added in mining mil. dol...	167.3	167.3	21.4	8.1	12.5	.8	(D)	(D)	(D)	-	(D)	(D)	(Z)
Massachusetts													
Establishments.....number..	118	112	13	7	5	1	44	-	44	-	2	53	6
Employees.....1,000.....	1.1	(D)	.1	(D)	(Z)	(D)	.5	-	.5	-	(D)	.5	(D)
Value added in mining mil. dol...	54.4	(D)	2.7	(D)	.9	(D)	26.0	-	26.0	-	(D)	25.0	(D)
Michigan													
Establishments.....number..	941	921	292	3	6	283	103	3	98	2	7	519	20
Employees.....1,000.....	10.7	10.5	1.7	(Z)	(D)	(D)	4.5	(D)	3.4	(D)	.2	4.2	.1
Value added in mining mil. dol...	1 934.7	1 940.6	1 313.8	.1	(D)	(D)	254.9	(D)	237.2	(D)	114.7	257.1	-5.8
Minnesota													
Establishments.....number..	170	162	23	3	10	10	60	-	60	-	1	78	8
Employees.....1,000.....	9.2	(D)	.8	(D)	(D)	(D)	6.5	-	6.5	-	(D)	(D)	(D)
Value added in mining mil. dol...	598.8	(D)	35.7	(D)	(D)	(D)	524.3	-	524.3	-	(D)	(D)	(D)
Mississippi													
Establishments.....number..	1 374	1 345	482	-	5	477	25	-	22	3	5	833	29
Employees.....1,000.....	9.6	9.5	(D)	-	(D)	1.8	(D)	-	(D)	(D)	(D)	(D)	.1
Value added in mining mil. dol...	1 765.7	1 761.8	(D)	-	(D)	1 305.1	(D)	-	(D)	(D)	(D)	(D)	3.9
Missouri													
Establishments.....number..	394	376	72	13	26	33	191	14	168	9	1	112	18
Employees.....1,000.....	7.9	7.8	.6	.1	.3	.1	5.4	2.1	3.1	.2	(D)	(D)	.1
Value added in mining mil. dol...	418.2	428.7	37.0	5.8	17.3	14.0	367.1	179.6	174.3	13.3	(D)	(D)	-10.5
Montana													
Establishments.....number..	1 148	1 107	432	9	7	416	32	4	28	-	3	640	41
Employees.....1,000.....	8.5	8.4	1.6	(D)	(D)	1.3	2.5	.4	2.1	-	(D)	(D)	.1
Value added in mining mil. dol...	1 694.9	1 669.2	1 005.5	(D)	(D)	998.3	418.5	22.3	396.2	-	(D)	(D)	25.7
Nebraska													
Establishments.....number..	434	424	160	-	5	155	46	1	40	5	2	216	10
Employees.....1,000.....	2.3	2.3	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	(Z)
Value added in mining mil. dol...	246.0	247.3	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	64.0	-1.2
Nevada													
Establishments.....number..	334	301	34	9	13	12	53	4	48	1	1	213	33
Employees.....1,000.....	6.6	6.3	.2	(Z)	.1	(Z)	3.7	.3	3.4	(Z)	(D)	(D)	.3
Value added in mining mil. dol...	467.6	471.5	30.6	.6	2.6	27.4	328.3	22.5	305.8	(Z)	(D)	(D)	-3.9
New Hampshire													
Establishments.....number..	28	28	4	1	2	1	12	-	12	-	-	12	-
Employees.....1,000.....	.3	.3	.1	-	(D)	(D)	.1	-	.1	-	-	.1	-
Value added in mining mil. dol...	17.3	17.3	2.9	(D)	(D)	(D)	3.9	-	3.9	-	-	10.5	-
New Jersey													
Establishments.....number..	165	163	15	4	11	-	57	-	54	3	-	91	2
Employees.....1,000.....	3.4	(D)	(D)	(D)	.1	-	1.3	-	(D)	(D)	-	1.9	(D)
Value added in mining mil. dol...	120.1	(D)	(D)	(D)	3.2	-	81.8	-	(D)	(D)	-	29.5	(D)
New Mexico													
Establishments.....number..	1 581	1 545	649	22	8	619	35	12	21	2	36	825	36
Employees.....1,000.....	26.6	25.7	(D)	1.3	.6	(D)	6.7	4.3	(D)	(D)	(D)	11.7	.9
Value added in mining mil. dol...	7 126.7	7 107.3	(D)	38.0	21.0	(D)	582.7	219.2	(D)	(D)	(D)	605.7	19.4
New York													
Establishments.....number..	598	579	174	15	20	139	124	3	118	3	5	276	19
Employees.....1,000.....	7.8	(D)	(D)	.1	.1	(D)	(D)	.8	1.8	(D)	(D)	3.9	(D)
Value added in mining mil. dol...	414.7	(D)	(D)	3.8	5.2	(D)	(D)	60.6	102.7	(D)	(D)	115.2	(D)
North Carolina													
Establishments.....number..	179	172	17	8	8	1	95	-	90	5	1	59	7
Employees.....1,000.....	4.0	(D)	.3	(D)	(D)	(Z)	2.9	-	(D)	(D)	(D)	.7	(D)
Value added in mining mil. dol...	198.3	(D)	10.6	(D)	(D)	(Z)	169.5	-	(D)	(D)	(D)	17.9	(D)

See footnotes at end of table.

Table 15. **Selected Statistics by Type of Operation for States and Offshore Areas: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
North Dakota													
Establishments.....number...	1 037	1 008	347	-	3	344	16	-	15	1	8	637	29
Employees.....1,000.....	8.5	8.4	1.3	-	(D)	(D)	1.0	-	(D)	(D)	.2	5.9	.2
Value added in mining.....mil. dol...	1 999.1	1 996.7	1 409.2	-	(D)	(D)	98.0	-	(D)	(D)	133.7	355.7	2.4
Ohio													
Establishments.....number...	2 196	2 159	853	103	51	699	275	13	248	14	6	1 025	37
Employees.....1,000.....	28.9	28.7	6.8	1.9	.8	4.1	12.4	6.0	4.7	1.6	.2	9.4	.2
Value added in mining.....mil. dol...	2 325.5	2 320.0	941.3	133.7	45.7	761.9	898.5	425.3	326.2	147.0	10.3	469.9	5.5
Oklahoma													
Establishments.....number...	9 144	9 037	4 035	20	12	4 003	69	2	61	6	97	4 836	107
Employees.....1,000.....	104.1	(D)	20.6	.3	.2	20.1	2.1	(D)	(D)	(Z)	(D)	79.7	(D)
Value added in mining.....mil. dol...	13 274.5	(D)	8 443.7	16.1	23.8	8 403.8	138.1	(D)	(D)	1.9	(D)	3 669.1	(D)
Oregon													
Establishments.....number...	216	183	20	2	14	4	62	-	60	2	-	101	33
Employees.....1,000.....	1.8	1.7	.1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	(D)	.1
Value added in mining.....mil. dol...	60.3	58.7	4.7	(D)	(D)	(D)	(D)	-	(D)	(D)	-	(D)	1.6
Pennsylvania													
Establishments.....number...	1 905	1 879	918	418	119	381	341	42	256	43	34	586	26
Employees.....1,000.....	48.0	47.9	13.4	8.9	2.4	2.1	24.2	11.6	8.4	4.2	.9	9.4	.1
Value added in mining.....mil. dol...	2 936.8	2 938.7	1 047.0	505.4	166.7	374.8	1 533.9	651.5	562.0	320.4	56.7	301.1	-1.9
Rhode Island													
Establishments.....number...	20	19	-	-	-	-	8	-	8	-	-	11	1
Employees.....1,000.....	.2	.2	-	-	-	-	(D)	-	(D)	-	-	(D)	-
Value added in mining.....mil. dol...	7.3	7.3	-	-	-	-	(D)	-	(D)	-	-	(D)	-
South Carolina													
Establishments.....number...	79	72	5	-	4	1	44	-	42	2	-	23	7
Employees.....1,000.....	1.5	1.5	(D)	-	(Z)	(D)	(D)	-	1.2	(D)	-	.2	.1
Value added in mining.....mil. dol...	72.2	72.7	(D)	-	.5	(D)	(D)	-	68.3	(D)	-	3.0	-5
South Dakota													
Establishments.....number...	143	134	36	1	5	30	24	1	23	-	-	74	9
Employees.....1,000.....	2.3	2.3	.2	(D)	(D)	(D)	1.7	(D)	(D)	-	-	.3	(Z)
Value added in mining.....mil. dol...	115.9	116.0	37.9	(D)	(D)	(D)	61.4	(D)	(D)	-	-	16.7	-1
Tennessee													
Establishments.....number...	555	534	255	166	31	58	118	13	100	5	10	151	21
Employees.....1,000.....	9.0	(D)	3.2	2.3	.5	.4	4.4	1.6	2.2	.6	(D)	1.1	(D)
Value added in mining.....mil. dol...	497.7	(D)	232.1	114.7	30.4	87.0	207.3	91.9	109.0	6.5	(D)	44.0	(D)
Texas													
Establishments.....number...	21 262	21 080	9 601	28	33	9 540	177	3	166	8	362	10 940	182
Employees.....1,000.....	266.8	264.9	(D)	.4	.4	(D)	8.6	(D)	7.9	(D)	(D)	189.5	1.9
Value added in mining.....mil. dol...	54 452.6	54 470.2	(D)	34.0	18.6	(D)	528.3	(D)	471.6	(D)	(D)	8 174.2	-17.6
Utah													
Establishments.....number...	788	749	239	36	14	189	44	15	21	8	17	449	39
Employees.....1,000.....	17.5	16.6	5.1	1.6	2.1	1.4	5.2	(D)	(D)	.6	1.6	4.7	.8
Value added in mining.....mil. dol...	1 664.8	1 621.9	871.3	124.5	50.6	696.3	322.9	(D)	(D)	37.9	170.2	257.6	42.9
Vermont													
Establishments.....number...	46	45	10	1	8	1	14	1	13	-	2	19	1
Employees.....1,000.....	.8	.8	(D)	(D)	(D)	(D)	(D)	(D)	.3	-	(D)	.1	-
Value added in mining.....mil. dol...	36.1	36.1	(D)	(D)	(D)	(D)	(D)	(D)	15.0	-	(D)	2.5	-
Virginia													
Establishments.....number...	916	896	574	505	36	33	159	31	118	10	12	151	20
Employees.....1,000.....	24.4	24.4	(D)	10.0	.8	(D)	10.1	3.9	2.9	3.4	(D)	2.5	.1
Value added in mining.....mil. dol...	1 466.8	1 460.8	(D)	529.9	64.5	(D)	752.6	252.0	151.3	349.3	(D)	64.5	6.0
Washington													
Establishments.....number...	242	222	22	8	7	7	65	1	64	-	2	133	20
Employees.....1,000.....	2.8	2.7	(D)	(Z)	(D)	(Z)	1.6	(D)	(D)	-	(D)	1.0	.1
Value added in mining.....mil. dol...	161.9	162.5	(D)	3.0	(D)	(D)	108.9	(D)	(D)	-	(D)	46.8	-6
West Virginia													
Establishments.....number...	2 104	2 062	1 236	471	32	733	222	123	59	40	33	571	42
Employees.....1,000.....	63.1	62.9	18.0	12.8	1.3	3.9	36.7	27.1	2.4	7.2	1.3	6.9	.2
Value added in mining.....mil. dol...	4 789.8	4 787.5	1 480.0	852.2	102.5	525.3	2 842.7	2 082.8	183.3	576.6	118.5	346.3	2.3
Wisconsin													
Establishments.....number...	208	205	23	4	14	5	114	-	113	1	-	68	3
Employees.....1,000.....	1.9	(D)	.1	(Z)	.1	(Z)	1.5	-	(D)	(D)	-	(D)	(D)
Value added in mining.....mil. dol...	85.8	(D)	5.4	.2	3.2	2.1	70.1	-	(D)	(D)	-	(D)	(D)
Wyoming													
Establishments.....number...	2 101	2 068	740	18	4	718	60	6	49	5	32	1 236	33
Employees.....1,000.....	34.2	33.9	(D)	.4	.2	(D)	12.0	(D)	6.9	(D)	(D)	(D)	.3
Value added in mining.....mil. dol...	6 858.8	6 858.8	(D)	19.2	6.5	(D)	1 815.1	(D)	1 278.9	(D)	(D)	(D)	(Z)

See footnotes at end of table.

Table 15. **Selected Statistics by Type of Operation for States and Offshore Areas: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Geographic area and item	All types of operations	Producing establishments										Non-producing establishments	
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed ¹
			Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
North and Mid-Atlantic Offshore													
Establishments..... number...	20	13	-	-	-	-	-	-	-	-	-	13	7
Employees .....1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
Value added in mining mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
South Atlantic Offshore													
Establishments..... number...	9	5	-	-	-	-	-	-	-	-	-	5	4
Employees .....1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
Value added in mining mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
Northern Gulf of Mexico Offshore													
Establishments..... number...	41	35	7	-	-	7	-	-	-	-	-	28	6
Employees .....1,000...	3.2	(D)	(D)	-	-	(D)	-	-	-	-	-	2.1	(D)
Value added in mining mil. dol...	2 218.2	(D)	(D)	-	-	(D)	-	-	-	-	-	230.0	(D)
Pacific Offshore													
Establishments..... number...	11	9	2	-	-	2	-	-	-	-	-	7	2
Employees .....1,000...	1.3	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	-
Value added in mining mil. dol...	488.3	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on information available.

Table 16. **Selected Statistics for Nonproducing Establishments by Industry Group and Industry: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group and industry	1982								1977	
		Establishments during year		All employees		Production, development, and exploration workers			Capital expenditures (million dollars)	All employees (1,000)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)			
	All mineral industries -----	1 339	105	11.5	329.5	6.2	13.2	160.5	1 774.2	6.0	1 050.1
10	Metal mining-----	179	38	4.2	117.2	2.9	6.1	80.8	332.1	2.5	170.8
1011	Iron ores-----	8	3	.1	4.1	.1	.1	2.0	2.5	(D)	(D)
1021	Copper ores-----	14	4	.7	20.4	.4	.9	9.1	44.9	.6	60.9
1031	Lead and zinc ores-----	17	2	(D)	(D)	(D)	(D)	(D)	(D)	.1	.1
104	Gold and silver ores-----	60	11	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(D)
1041	Gold ores-----	56	10	.8	17.6	.5	.9	11.1	98.5	(D)	(D)
1044	Silver ores-----	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1061	Ferroalloy ores, except vanadium-----	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores-----	72	16	1.4	38.7	1.0	2.3	27.7	96.4	1.6	105.9
1094	Uranium-radium-vanadium ores-----	53	16	1.3	36.7	1.0	2.2	26.4	93.0	1.6	105.9
1092	Mercury ores and metallic ores, n.e.c.-----	19	-	.1	2.0	.1	.1	1.2	3.4	(Z)	-
1099											
11	Anthracite mining-----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
111	Anthracite mining-----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1111	Anthracite-----	4	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
12	Bituminous coal and lignite mining-----	129	18	1.3	32.1	.7	1.5	17.6	107.7	1.1	208.3
121	Bituminous coal and lignite mining-----	129	18	1.3	32.1	.7	1.5	17.6	107.7	1.1	208.3
1211	Bituminous coal and lignite-----	129	18	1.3	32.1	.7	1.5	17.6	107.7	1.1	208.3
13	Oil and gas extraction-----	885	41	5.0	161.0	1.9	4.3	50.8	1 294.8	1.8	663.0
1311	Crude petroleum and natural gas-----	875	41	5.0	160.3	1.9	4.3	50.6	1 294.5	1.7	652.8
1321	Natural gas liquids-----	10	-	(Z)	.7	(Z)	(Z)	.2	.3	.1	10.2
14	Nonmetallic minerals, except fuels-----	142	8	(D)	(D)	(D)	(D)	(D)	(D)	.6	8.0
1411	Dimension stone-----	5	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(D)	(D)
142	Crushed and broken stone, including riprap-----	38	1	.2	3.8	.2	.3	3.1	6.8	.3	.6
1422	Crushed and broken limestone-----	21	1	.2	3.1	.2	.3	2.6	6.8	(D)	(D)
1423	Crushed and broken granite-----	3	-	(Z)	.1	(Z)	(Z)	(Z)	-	(D)	(D)

Table 16. Selected Statistics for Nonproducing Establishments by Industry Group and Industry: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

SIC code	Industry group and industry	1982								1977	
		Establishments during year		All employees		Production, development, and exploration workers			Capital expenditures (million dollars)	All employees (1,000)	Capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)			
14	Nonmetallic minerals, except fuels—Con.										
142	Crushed and broken stone, including riprap—Con.										
1429	Crushed and broken stone, n.e.c.-----	14	-	(Z)	.6	(Z)	.1	.4	(Z)	.1	.4
144	Sand and gravel-----	71	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1442	Construction sand and gravel-----	63	2	.4	6.9	.3	.6	4.7	12.4	(D)	(D)
1446	Industrial sand-----	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals----	8	1	.1	2.3	(Z)	.1	.8	.1	(D)	(D)
1452	Bentonite-----	3	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1453	Fire clay-----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c.-----	4	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-
147	Chemical and fertilizer mineral mining----	10	2	.1	3.6	.1	.1	.8	19.7	(D)	(D)
1472	Barite-----	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1475	Phosphate rock-----	7	2	.1	3.2	(Z)	.1	.5	19.6	(D)	(D)
1477	Sulfur-----	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals-----	10	-	(Z)	.8	(Z)	(Z)	.5	.1	(Z)	.1
1492	Gypsum-----	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(D)	(D)
1496	Talc, soapstone, and pyrophyllite-----	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(D)	(D)
1499	Miscellaneous nonmetallic minerals, n.e.c.-----	8	-	(Z)	.7	(Z)	(Z)	.4	.1	(Z)	.1

APPENDIX A.

Explanation of Terms

Employment and related items—The report forms requested separate information on production, development, and exploration workers as of a payroll period for each quarter of the year and for other employees as of the payroll period which included the 12th of March.

All employees—this item includes all full-time and part-time employees on the payrolls of mining establishments for any part of the pay period which included the 12th of the month specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees, but proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers—This category includes employees (up through the working supervisor level) engaged in manual work: using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards. Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishments covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. Supervisory employees above the working supervisor level are excluded from this category.

All other employees—Nonproduction personnel at the establishment include those engaged in the following activities: Supervision above the working supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal,

personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees—This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments were classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year—The 1982 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll—This term includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and saving bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages. As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and geographic areas. Respondents were told that in reporting they could follow the definition of payroll used for calculating the Federal withholding tax.

Production, development, and exploration worker hours—This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repairpersons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight-time equivalent hours. Hours of working proprietors or partners are excluded.

Supplemental labor costs—This time represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including social security contributions—This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs—Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining—This measure of mining activity is derived by subtracting the cost of supplies used, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work from the sum of the value of shipments and receipts (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.—Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1982 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels

and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Separate figures were requested for: (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments; or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.—In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information was also collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. On report forms for almost all mineral industries except the contract services and the crude petroleum and natural gas industries, a uniform inquiry was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in 'not specified by kind.'

Value of shipments and receipts and net shipments—The amounts shown as value of shipments and receipts for each industry and for individual products or classes of products are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges. "Shipments" include all products shipped on consignment, whether or not sold in 1982. Prepared material or concentrates include preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value, i.e., to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes: (1) the value of all "primary" products of the industry, (2) the value of "secondary" products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products.

Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale. When this duplication is significant, figures generally are shown for both gross and net shipments. The net shipments are obtained by subtracting the value of crude minerals transferred to other establishments for preparation and the value of resales from the gross shipments.

Shipments of individual products—In the 1982 Census of Mineral Industries, information was collected on output for 194 individual mineral products. In general, the shipments figures of the 1982, 1977, and 1972 Minerals Censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures were also obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments include commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production was also collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1982 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Capital expenditures—This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1982 were to be determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures were to include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property,

construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets—Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation cost). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements—This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1982. The values shown are the acquisition costs of the retired assets. This item includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation—This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments—This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Current account expenditures—This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories—This item includes inventories of mined or quarried products, and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977

census when respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.

Fuels and electric energy used—This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels". Data were also obtained on the quantity of fuels and electric energy produced and consumed at the same establishment.

These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. In addition, figures for stocks of purchased fuels on hand at the end of the year were reported for the first time in 1982. Every establishment was required to report the total quantity of unexpended fuel it had on hand, including emergency reserves, at the end of the year. Excluded are fuels to be used as feedstocks or raw materials. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

APPENDIX B.

Industry Descriptions

This appendix contains descriptions of the forty-two four-digit industries for which data were compiled and published in the 1982 Census of Mineral Industries. The industries are the same as those described in the 1972 edition of the Standard Industrial Classification (SIC) Manual.

The industry titles and descriptions, in general, agree with those appearing in the SIC manual, but the descriptions have been expanded in some instances to include references to additional products classified in other industries.

10 METAL MINING

101 Iron Ores

1011 Iron Ores—Establishments primarily engaged in mining, beneficiating, or otherwise preparing iron ores. The industry includes the production of sinter and other agglomerates in association with mining and beneficiating activities. Blast furnaces primarily engaged in producing pig iron from iron ore are classified as manufacturing plants in Industry 3312, Blast Furnaces and Steel Mills. The production of sinter and other agglomerates in conjunction with blast furnace operations is also classified as manufacturing.

102 Copper Ores

1021 Copper Ores—Establishments primarily engaged in mining, milling, or otherwise preparing copper ores. This industry also includes establishments primarily engaged in the recovery of copper concentrates by precipitation and leaching of copper ore. Establishments primarily engaged in the recovery of refined copper by leaching copper concentrates are classified in Major Group 33, Primary Metal Industries.

103 Lead and Zinc Ores

1031 Lead and Zinc Ores—Establishments primarily engaged in mining, milling, or otherwise preparing lead ores, zinc ores, or lead-zinc ores.

104 Gold and Silver Ores

1041 Gold Ores—Establishments primarily engaged in mining gold ores from lode deposits or in the recovery of gold from placer deposits by any method. In addition to ore dressing methods such as crushing, grinding, gravity concentration, and froth flotation, this industry includes amalgamation, cyanidation, and the production of bullion at the mine, mill or dredge site.

1044 Silver Ores—Establishments primarily engaged in mining, milling, or otherwise preparing silver ores. The production of bullion at the mine or mill site is included.

10 METAL MINING—Con.

105 Bauxite and Other Aluminum Ores

1051 Bauxite and Other Aluminum Ores—Establishments primarily engaged in mining, milling, or otherwise preparing bauxite and other aluminum ores. Associated activities such as drying, calcining, activating, and sintering are also included.

106 Ferroalloy Ores, Except Vanadium

1061 Ferroalloy Ores, Except Vanadium—Establishments primarily engaged in mining, milling, or otherwise preparing ferroalloy ores, except vanadium. Titanium ore, used sometimes for ferroalloying but principally for other purposes, is classified in industry 1099. Mining of vanadium is classified in industry 1094.

108 Metal Mining Services

1081 Metal Mining Services—Establishments primarily engaged in metal mining services for others on a contract, fee, or other basis, such as removal of overburden, strip mining, prospect and test drilling, and mine exploration and development. Establishments primarily engaged in performing hauling services are excluded from this industry.

109 Miscellaneous Metal Ores

1092 Mercury Ores—Establishments primarily engaged in mining, milling, or otherwise preparing mercury ores. This industry includes the production of metallic mercury by furnacing or retorting at the mine site.

1094 Uranium-Radium-Vanadium Ores—Establishments primarily engaged in mining, milling, or otherwise preparing uranium-radium-vanadium ores.

1099 Metal Ores, Not Elsewhere Classified—Establishments primarily engaged in mining, milling, or otherwise preparing miscellaneous metal ores, not elsewhere classified, such as antimony, beryllium, germanium, palladium, tin, zirconium, and rare-earth ores.

11 ANTHRACITE MINING

111 Anthracite

1111 Anthracite—Establishments primarily engaged in producing anthracite or in developing anthracite mines. All establishments in the United States that are classified in this industry are in Pennsylvania. This industry includes underground mines, stripping or culm-bank operations by owners or lessees, dredge operations, and coal preparation plants (breakers, washeries, and screening plants) whether or not operated in conjunction with the mines served.

1112 Anthracite Mining Services—Establishments primarily engaged in performing anthracite mining services for others on a contract, fee, or similar basis. This includes overburden stripping and strip mining, and recycling culm bank anthracite for others on a contract, fee, or other basis and other establishments primarily engaged in performing anthracite mining services, such as drilling, mine tunnelling, shaft sinking, and pumping or draining mines. The production of fuel briquets and packaged fuel is classified in Industry 2999, Petroleum and Coal Products, N.E.C., and the production of manufactured gas from coal in Industry 4925, Mixed Manufactured, or L.P. Gas Production and/or Distribution.

12 BITUMINOUS COAL AND LIGNITE MINING

121 Bituminous Coal and Lignite Mining

1211 Bituminous Coal and Lignite—Establishments primarily engaged in producing bituminous coal or lignite or in developing bituminous coal or lignite mines. This industry includes underground mining, auger mining, strip mining, culm bank mining, and coal cleaning, crushing, screening, and sizing plants, whether or not operated in conjunction with the mines served.

1213 Bituminous Coal and Lignite Mining Services—Establishments primarily engaged in performing bituminous coal and lignite mining services for others on a contract, fee, or similar basis. This includes stripping overburden, strip, and auger mining of bituminous coal or lignite for others on a contract, fee, or other basis and other establishments primarily engaged in performing bituminous coal and lignite mining services, such as drilling, shaft sinking, and mine tunnelling. The production of coke is classified in Industry 3312, Blast Furnaces and Steel Mills. The production of fuel briquets and packaged fuel is classified in Industry 2999, Petroleum and Coal Products, N.E.C., and the production of manufactured gas from coal in Industry 4925, Mixed, Manufactured, or L.P. Gas Production and/or Distribution.

13 CRUDE PETROLEUM AND NATURAL GAS

131 Crude Petroleum and Natural Gas

1311 Crude Petroleum and Natural Gas—Establishments primarily engaged in operating oil and gas field properties. Such activities include exploration for crude petroleum and natural gas; drilling, completing, and equipping wells; and the operation of separators, emulsion breakers, desilting equipment; and all other activities incident to making oil and gas marketable up to the point of shipment from the producing property. This industry also includes production of oil through the mining and extraction of oil from oil shale and oil sands. Production of natural gas liquids is classified in Industry 1321, Natural Gas Liquids. Establishments primarily engaged in performing oil field services for operators on a contract, fee, or other basis are classified in Group 138, Oil and Gas Field Services. Pipe line transportation of petroleum, gasoline, and other petroleum products is classified in Major Group 46, and pipe line transportation of natural gas in industries 4922 and 4923. Establishments primarily engaged in petroleum refining and in the production of lubricating oils and greases are classified in Major Group 29, Petroleum Refining and Related Industries.

132 Natural Gas Liquids

1321 Natural Gas Liquids—Establishments primarily engaged in producing liquid hydrocarbons from oil and gas field gases. Establishments recovering liquefied petroleum gases incident to petroleum refining or to the manufacturing of chemicals are classified in Major Groups 28 or 29.

138 Oil and Gas Field Services

1381 Drilling Oil and Gas Wells—Establishments primarily engaged in drilling wells for oil or gas field operations for others on a contract, fee, or similar basis. This industry includes contractors that specialize in "spudding in," drilling in," redrilling, and directional drilling.

1382 Oil and Gas Exploration Services—Establishments primarily engaged in geophysical, geological, and other exploration work on a contract, fee, or similar basis.

1389 Oil and Gas Field Services, N.E.C.—Establishments primarily engaged in performing oil and gas field services, not elsewhere classified, for others on a contract, fee, or similar basis, such as excavating slush pits and cellars; grading and building foundations at well locations; well surveying; running, cutting, and pulling casings, tubes, and rods; cementing wells; shooting wells; perforating well casing; acidizing and chemically treating wells; and cleaning out, bailing, and swabbing wells.

14 MINING AND QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS

141 Dimension Stone

1411 Dimension Stone—Establishments primarily engaged in mining or quarrying dimension stone. Also included are establishments primarily engaged in producing rough blocks and slabs. Establishments primarily engaged in mining or quarrying and shaping grindstones, pulpstones, millstones, burrstones, and sharpening stones are classified in industry 1499; and those mining or quarrying dimension soapstone in industry 1496. Establishments primarily engaged in dressing (shaping, polishing, or otherwise finishing) rough blocks and slabs are classified in Industry 3281, Cut Stone and Stone Products. Nepheline syenite operations are classified in industry 1459.

142 Crushed and Broken Stone, Including Riprap

1422 Crushed and Broken Limestone—Establishments primarily engaged in mining or quarrying crushed and broken limestone, including related rocks, such as dolomite, cement rock, marl, travertine, and calcareous tufa. Also included are establishments primarily engaged in the grinding or pulverizing of limestone, but establishments primarily engaged in producing lime are classified in industry 3274. Establishments primarily engaged in mining or preparing bituminous limestone and sandstone are classified in Industry 1499, Miscellaneous Nonmetallic Minerals, N.E.C.

1423 Crushed and Broken Granite—Establishments primarily engaged in mining or quarrying crushed and broken granite, including related rocks, such as gneiss, syenite, and diorite.

1429 Crushed and Broken Stone, N.E.C.—Establishments primarily engaged in mining or quarrying crushed and broken stone, n.e.c., such as slate (including slate granules), marble, trap rock (basalt, diabase, gabbro, and related rocks), sandstone (including quartzite and gneiss), and various light-colored volcanic rocks, mica schist, and mixed boulders.

144 Sand and Gravel

1442 Construction Sand and Gravel—Establishments primarily engaged in operating sand and gravel pits and dredges, and in washing, screening, and otherwise preparing sand and gravel for construction uses.

1446 Industrial Sand—Establishments primarily engaged in operating sand pits and dredges, and in washing, screening, and otherwise preparing sand for uses other than construction, such as glass making, molding, and abrasives.

14 MINING AND QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS—Con.

145 Clay, Ceramic, and Refractory Minerals

1452 Bentonite—Establishments primarily engaged in mining, milling, or otherwise preparing bentonite. Establishments engaged in preparing bentonite which do not include a mine are classified in the manufacturing Industry 3295, Minerals and Earths, Ground or Otherwise Treated.

1453 Fire Clay—Establishments primarily engaged in mining, milling, or otherwise preparing fire clay, including stoneware clay and diaspore. For mines producing fire clay as the principal product as part of an establishment manufacturing cement or clay, refractory, or pottery products, the entire establishment is classified in manufacturing. These operations were included in the following manufacturing Industries: 3241, Cement, Hydraulic; 3251, Brick and Structural Tile; 3255, Clay Refractories; and 3259, Structural Clay Products, N.E.C.

1454 Fuller's Earth—Establishments primarily engaged in mining, milling, or otherwise preparing fuller's earth.

1455 Kaolin and Ball Clay—Establishments primarily engaged in mining, milling, or otherwise preparing kaolin or ball clay, including china clay, paper clay, and slip clay.

1459 Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified—Establishments primarily engaged in mining, milling, or otherwise preparing clay, ceramic, or refractory minerals, not elsewhere classified, such as common clay and shale, andalusite, aplite, brucite, dumortierite, feldspar, kyanite, laterite, magnesite, olivine, pinite, sillimanite, and topaz (nongem). Establishments producing common clay and shale in conjunction with the manufacture of structural clay products are classified in Major Group 32, Stone, Clay, and Glass Products. Such combinations of mining and manufacturing establishments were included in the following manufacturing Industries: 3241, Cement, Hydraulic; 3251, Brick and Structural Tile; 3253, Ceramic Wall and Floor Tile; 3255, Clay Refractories; and 3259, Structural Clay Products, N.E.C.

147 Chemical and Fertilizer Mineral Mining

1472 Barite—Establishments primarily engaged in mining, milling, grinding, or otherwise preparing crude barite. Establishments engaged in grinding barite which do not include a mine are classified in manufacturing Industry 3295, Minerals and Earths, Ground or Otherwise Treated.

1473 Fluorspar—Establishments primarily engaged in mining, milling, or otherwise preparing fluorspar.

1474 Potash, Soda, and Borate Minerals—Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt). Products of the industry include potash salts, sodium borates (borax, kernite, ulexite), sodium carbonates (soda ash, trona), sodium sulfates (principally Glauber's salt), and colemanite, a calcium borate. Dry-lake brine operations are included in this industry as well as establishments engaged in producing the specified minerals from underground and open pit mines.

14 MINING AND QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS—Con.

147 CHEMICALS AND FERTILIZER MINERAL MINING—Con.

1475 Phosphate Rock—Establishments primarily engaged in mining, milling, drying, or otherwise preparing phosphate rock, including apatite. Establishments primarily engaged in the production of phosphoric acid, superphosphates, or other manufactured phosphate compounds or chemicals are classified in Major Group 28, Chemicals and Allied Products.

1476 Rock Salt—Establishments primarily engaged in mining, crushing, and screening rock salt. Establishments primarily engaged in manufacturing edible salt from rock salt and from natural or artificial brines are classified in manufacturing Industry 2899, Chemicals and Chemical Preparations, N.E.C.

1477 Sulfur—Establishments primarily engaged in mining native sulfur, including the extraction of native sulfur at well operations and mining and beneficiating sulfur ore. The mining of pyrites for sulfur is included in Industry 1479, Chemical and Fertilizer Mineral Mining, N.E.C. The recovery of sulfur from sour natural gas is included in manufacturing Industry 2819, Industrial Inorganic Chemicals, N.E.C.

1479 Chemical and Fertilizer Mineral Mining, N.E.C.—Establishments primarily engaged in mining, milling, or otherwise preparing chemical or fertilizer mineral raw materials, n.e.c., such as arsenic minerals, guano, lithium minerals, mineral pigments, pyrites, and strontium minerals.

148 Nonmetallic Minerals (Except Fuels) Services

1481 Nonmetallic Minerals (Except Fuels) Services—Establishments primarily engaged in performing nonmetallic minerals (except fuels) services for others

14 MINING AND QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS—Con.

on a contract, fee, or other basis. The principal services performed on this industry are prospect, test, and other drilling; overburden stripping and strip mining; sinking mine shafts and driving mine tunnels; and exploration work. Establishments primarily engaged in performing hauling services are excluded from this industry.

149 Miscellaneous Nonmetallic Minerals, Except Fuels

1492 Gypsum—Establishments primarily engaged in mining, quarrying, milling, or otherwise preparing gypsum. Calcining activities are excluded. However, if a gypsum mine is part of an establishment producing gypsum products, the entire establishment is classified in the manufacturing Industry 3275, Gypsum Products.

1496 Talc, Soapstone, and Pyrophyllite—Establishments primarily engaged in mining, quarrying, milling, or otherwise preparing talc, soapstone, or pyrophyllite. Dimension soapstone is included in this industry. Establishments engaged in grinding talc, soapstone, or pyrophyllite which do not include a mine are classified in the manufacturing Industry 3295, Minerals and Earths, Ground or Otherwise Treated.

1499 Miscellaneous Nonmetallic Minerals, Not Elsewhere Classified—Establishments primarily engaged in mining, quarrying, milling, or otherwise preparing miscellaneous nonmetallic minerals, not elsewhere classified, such as asbestos, diatomite, natural gem stones, graphite, green-sand, perlite, Iceland spar (optical grade calcite), and vermiculite.

APPENDIX C.

Authority for Census: Title 13, United States Code

COLLECTION AND PUBLICATION;

Five-year periods (131)

The Secretary shall take, compile and publish censuses of manufactures, of mineral industries, and of other businesses...in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

GEOGRAPHIC SCOPE OF CENSUSES (191a)

(a) Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Island, Guam, the Commonwealth of the Northern Mariana Islands, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of the other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

WRONGFUL DISCLOSURE OF INFORMATION (214)

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe

the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

FAILURE TO ANSWER QUESTIONS AFFECTING COMPANIES, BUSINESSES, RELIGIOUS BODIES, AND OTHER ORGANIZATIONS; FALSE ANSWERS (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than \$500; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000.

APPENDIX D.

Alphabetic index of Products and Services of Mineral Establishments

This index provides an alphabetic list of products and services, classified in the mineral industries, for which data are shown in table 6 of the industry reports. The references in this index refer to items for which statistics are either shown separately in that table or are included as part of a group of products or services. The index also includes products and services referred to in the industry descriptions in the explanatory text of the separate industry reports.

References to products may be found in various tables in the industry chapters; however, more detailed product information is typically given in table 6. The industry codes are based on the 1972 edition of the Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget.

A

Abandoning of wells for oil or gas field operations	13890
Abrasives, natural (except quartz and sand)	14994
Acidizing and other chemical treatment of wells, except hydraulic fracturing	13890
Agate	14997
Alabaster, crude	14921
Alabaster, prepared	14922
Alum, natural, crude	14741
Alum, natural, prepared	14742
Aluminum ores, crude	10511
Aluminum ores, prepared	10512
Amblygonite	14790
Amethyst	14997
Andalusite, crude	14599
Andalusite, prepared	14599
Anthracite, crushed	11112
Anthracite, mechanically cleaned	11112
Anthracite, raw, shipments, other than to coal preparation plants	11111
Anthracite, raw, shipped to coal preparation plants	11111
Anthracite, screened	11112
Anthracite, sized	11112
Anthracite, stripping overburden services	11120
Antimony concentrates	10999
Antimony ores, crude	10999
Apatite, crude, shipped to washer or concentrate	14751
Apatite, dried	14752
Aplite, crude	14599
Aplite, prepared	14599
Argillite, crude, dimension stone	14119
Arsenic minerals	14790
Asbestos	14997
Ash, volcanic	14993
Asphalt, native	14992
Auger mining services, bituminous coal	12130
Auger mining services, lignite	12130

B

Bailing out wells, oil and gas field	13890
Ball clay, crude	14551
Ball clay, prepared	14552
Barite, crude	14721
Barite, crushed	14722
Barite flotation concentrates	14722
Barite, ground	14722
Barite, prepared	14722
Barium ores, crude	14721
Basalt, rough, dimension stone	14119

B—Con.

Basalt, crushed and broken	14290
Bastnaesite, crude	10999
Bastnaesite, prepared	10999
Bauxite, calcined or activated	10512
Bauxite, crude, undried	10511
Bauxite, crude, undried, for direct shipping	10511
Bauxite, dried	10512
Bentonite, crude	14521
Bentonite, prepared	14522
Beryllium concentrates	10999
Beryllium ores, crude	10999
Bitumens, native	14992
Bituminous coal, crushed	12112
Bituminous coal, mechanically cleaned	12112
Bituminous coal, raw, shipments other than to coal preparation plants	12111
Bituminous coal, raw, shipped to coal preparation plants	12111
Bituminous coal, screened	12112
Bituminous coal, sized	12112
Bituminous limestone	14992
Bituminous sandstone	14992
Blasting services for anthracite mining	11120
Blasting services for bituminous coal mining	12130
Blasting services for lignite mining	12130
Blasting services for metal mining	10810
Blasting services for nonmetallic minerals (except fuels) mining	14810
Bleaching clay, crude	14540
Bleaching clay, prepared	14540
Bluestone, crude, dimension	14119
Board roads, building of, for oil or gas field operations	13890
Borate compounds and minerals, prepared	14744
Borax	14744
Boron compounds	14744
Boulders (mixed), crushed and broken	14290
Brimstone	14770
Briquets, iron	10112
Brucite, crude	14599
Brucite, prepared	14599
Building board roads for oil or gas field operations	13890
Building, erecting, repairing and dismantling rigs and derricks for oil or gas field operations	13890
Bullion, gold, produced at mine site	10413
Burley fire clay, crude	14531
Burley fire clay, prepared	14532
Burrstones, natural	14994
Butane, natural	13212

C

Cadmium, concentrates	10612
Calamine, prepared	10312
Calaverite, prepared	10412
Calcareous tufa, rough, dimension	14111
Calcareous tufa, crushed and broken	14220
Calcined phosphate rock	14752
Calcite, optical grade	14997
Canal dredging for oil or gas field operations	13890
Carbonates, sodium	14743
Celestite	14790
Cement rock, crushed and broken	14220
Cementing wells for oil or gas field operations	13890
Cerium concentrates	10999
Cerium ores, crude	10999
Cerrusite, prepared	10312
Cesium	10999
Chalcocite, prepared	10212
Chalcopyrite, prepared	10212
Chalk, crushed and broken	14220
Chemical treatment of wells for oil or gas field operations	13890
China clay, crude	14551
China clay, prepared	14552
Chromite, concentrates or prepared	10612
Chromite, crude	10611
Chromium concentrates	10612
Chromium ores, crude	10611
Cinnabar, crude	10921
Cinnabar, prepared	10923
Clay, ball, crude	14551
Clay, ball, prepared	14552
Clay, bleaching	14540
Clay, ceramic and refractory minerals, crude	14599
Clay, ceramic and refractory minerals, prepared	14599
Clay, china, crude	14551
Clay, china, prepared	14552
Clay, common, crude	14597
Clay, common, prepared	14597
Clay, fire, crude	14531
Clay, fire, prepared	14532
Clay, paper, crude	14551
Clay, paper, prepared	14552
Clay, slip, crude	14551
Clay, slip, prepared	14552
Clays, natural, bleaching	14540
Cleaning lease tanks for oil or gas field operations	13890
Cleaning out, including steam cleaning, bailing out, or swabbing wells for oil or gas field operations	13890
Clearing locations for oil or gas field operations	13890
Cobalt ores, concentrates	10612
Cobalt ores, crude	10611
Colemanite	14744
Columbite, crude	10611
Columbite, prepared	10612
Columbium ores, crude	10611
Columbium ores, prepared	10612
Common clay, crude	14597
Common clay, prepared	14597
Condensate, cycle	13212
Construction of oil or gas pipelines on lease; construction of gathering lines to point where distribution company takes over	13890
Construction sand, crude	14421
Construction sand, treated	14422
Contract services, general, for oil or gas field operations	13890
Copper concentrates	10212
Copper ore, crude, and old tailings shipped to mills for treatment	10211
Copper ore, crude, and old tailings shipped to smelters	10211
Copper-water precipitates, including precipitates from ore leached in place	10213
Core cutting in oil or gas wells	13890
Core drilling, oil or gas field exploration services	13820
Cornwall stone, crude	14599
Corundum	14994
Crane work-on lease, for oil or gas field operations	13890

C—Con.

Crude oil	13111
Crude petroleum	13111
Cryolite	14997
Culm bank recovery, for anthracite (services)	11120
Cuprite, prepared	10212
Cutting casing, tubes or rods for oil or gas field operations	13890
Cutting cores in oil or gas wells	13890
Cyanite, crude	14599
Cyanite, prepared	14599
Cycle condensate	13212

D

Diabase, crude, dimension stone	14119
Diabase, crushed and broken	14290
Diamonds, industrial	14994
Diaspore, crude	14531
Diaspore, prepared	14532
Diatomaceous earth	14996
Diatomite	14996
Dimension stone, rough, other than granite or limestone	14119
Diorite, crude, dimension stone	14115
Diorite, crushed and broken	14230
Directional drilling for oil or gas field operation	13810
Dirt work in oil or gas fields	13890
Disposal systems, salt water, for oil or gas field operations	13890
Dolomite, rough, dimension stone	14111
Dolomite, crushed and broken	14220
Dolomitic marble, rough, dimension stone	14119
Dolomitic marble, crushed and broken	14290
Dragstones	14994
Dredging canals for oil or gas field operations	13890
Dried phosphate rock	14752
Drill stem testing in oil, gas, dry and service well drilling	13890
Drilling, core, oil or gas field exploration services	13820
Drilling, directional, oil or gas field	13810
Drilling dry holes for gas and oil field	13810
Drilling gas wells	13810
Drilling oil wells	13810
Drilling rat holes and mouse holes for oil or gas field operations	13890
Drilling service wells for oil or gas field operations	13810
Drilling, shot hole, oil or gas field exploration services	13820
Drilling sites, preparation of, for oil or gas field operations	13890
Drilling, stratigraphic oil or gas field exploration services	13820
Drilling water intake wells, oil or gas field	13810
Drilling wells for gas or oil field operations	13810
Driving keyways for oil or gas field operations	13890
Dumortierite, crude	14599
Dumortierite, prepared	14599

E

Earth, diatomaceous	14996
Earth, fuller's (including all natural bleaching clays)	14540
Emery	14994
Engine installing for oil or gas field operations	13890
Electrowon copper recovered from leaching operations	10213
Erecting, cleaning, repairing, and dismantling lease tanks for oil or gas field operations	13890
Ethane, natural gas liquid	13212
Excavating mud pits, slush pits, and cellars for oil or gas field operations	13890
Exploration services for anthracite mining	11120
Exploration services for bituminous coal mining	12130
Exploration services for lignite mining	12130
Exploration services for metal mining	10810
Exploration services for nonmetallic minerals (except fuels) mining	14810

F

Feldspar, crude	14596
Feldspar, crushed or ground	14596
Feldspar, prepared	14596
Ferberite concentrates	10612
Ferberite crude ores	10611
Ferroalloy ores, except molybdenum and vanadium, crude	10611
Fertilizer minerals, natural	14790

F—Con.

Fire clay, crude (including plastic, flint, diaspore, burley and stoneware)	14531
Fire clay, plastic, crude	14531
Fire clay, plastic, prepared	14532
Fishing for tools (for oil or gas field operations)	13890
Flagstones, crude, dimension	14119
Flint, fire clay, crude	14531
Flint, fire clay, prepared	14532
Flooding and water injection for oil or gas field operations	13890
Fluorite, crude	14731
Fluorspar, crude	14731
Fluorspar, crushed	14732
Fluorspar flotation concentrates	14732
Fluorspar, ground	14732
Fluorspar, prepared	14732
Fuller's earth	14540

G

Gabbro, crude, dimension stone	14119
Gabbro, crushed and broken stone	14290
Galena, prepared	10312
Ganister, crushed and broken stone	14290
Garnet	14994
Gas, natural	13115
Gas or oil field geological exploration	13820
Gas or oil field geophysical exploration	13820
Gas residue	13213
Gasoline, natural	13212

Gem stones, natural	14997
General oil or gas field contracting	13890
Geological exploration, oil or gas field	13820
Geophysical exploration, oil or gas field	13820
Geophysical surveying services for anthracite mining	11120
Geophysical surveying services for bituminous coal mining	12130
Geophysical surveying services for lignite mining	12130
Geophysical surveying services for metal mining	10810
Geophysical surveying services for the mining of non-metallic minerals (except fuels)	14810
Germanium	10999
Gilsonite	14992

Glass sand for melting only	14461
Glauber's salt	14743
Gneiss, rough, dimension	14115
Gneiss, crushed and broken	14230
Gold concentrates	10412
Gold mill bullion and precipitates recovered by amalgamation	10413
Gold mill bullion and precipitates recovered by cyanidation	10413
Gold ore, lode, crude, and old tailings shipped to mills for treatment	10411
Gold ore, lode, crude, and old tailings shipped to smelters	10411
Gold, placer	10413

Grading well foundations at well locations for oil or gas field operations	13890
Grahamite	14992
Granite, rough, dimension stone	14115
Granite, crushed and broken	14230
Granules, slate	14290
Graphite	14997
Gravel, crude	14421
Gravel, prepared	14422
Gravel, run of pit or bank	14421
Gravel, washed and screened	14422

Greensand	14997
Greenstone, crude, dimension	14119
Grinding pebbles	14994
Grindstones	14994
Grits, crushed and broken stone	14290
Guano	14790
Gypsite, crude	14921
Gypsite, prepared	14922
Gypsum, crude	14921
Gypsum, crushed, ground, screened or dried	14922

H

Hafnium	10999
Hones	14994
Huebnerite, crude	10611
Huebnerite, prepared	10612
Humus, peat	14995
Hydraulic fracturing	13890

I

Iceland spar	14997
Ilmenite, concentrates	10991
Ilmenite ore, crude	10991
Indium	10999
Industrial sand	14469
Installing production equipment for oil or gas field operations	13890
Iridium	10997
Iron briquets, agglomerates	10112
Iron ore, crude, beneficiating-grade and/or agglomeration-grade	10111
Iron ore, crude, for direct shipping	10111
Iron pellets, agglomerates	10112
Iron sinter, agglomerates	10112
Isopentane, natural gas liquid	13212

J

Jade	14997
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K

Kaolin and ball clay, crude	14551
Kaolin and ball clay, prepared	14552
Kernite	14744
Keyway driving for oil or gas field operations	13890
Kyanite, crude	14599
Kyanite, prepared	14599

L

Laterite, crude	14599
Laterite, prepared	14599
Lead concentrates	10312
Lead ore, crude, and old tailings shipped to mills for treatment	10311
Lead ore, crude, and old tailings shipped to smelters	10311
Lease condensate	13111
Lease maintenance for oil or gas field operations	13890
Lease tanks, oil or gas field, erecting, cleaning and repairing	13890
Lepidolite	14790
Leveling for oil or gas field operations	13890

Lignite, crushed	12112
Lignite, mechanically cleaned	12112
Lignite, raw, shipped to coal preparation plants	12111
Lignite, screened	12112
Lignite, sized	12112
Limestone, bituminous	14992
Limestone, rough, dimension stone	14111
Limestone, crushed and broken	14220
Limonite, for treatment	10111
Limonite, for agglomeration plants not at blast furnace	10112

Lithium minerals	14790
Location clearing for oil or gas field operations	13890
Lode gold concentrates	10412
Lode gold, mill bullion	14013
Logging wells, gas or oil field	13890

M

Magnesite, crude	14599
Magnesite, prepared	14599
Magnetite, for treatment	10111
Magnetite, for agglomeration plants not at blast furnace	10112
Manganese concentrates	10612
Manganese and manganese ores, crude for treatment	10611
Manganese nodules	10612
Manganese ore, crude, for treatment	10611
Manganese ore, crude, beneficiating-grade and agglomeration grade	10611
Manganese ore, crude, direct shipping	10611

M—Con.

Manganese ores, treated	10612
Manganese sinter	10612
Manganite, crude, for treatment	10611
Manganite, prepared	10612
Marble, crude, dimension stone	14119
Marble, including dolomitic marble, crushed and broken	14290
Marcasite	14790
Marl, crushed and broken	14222
Meerschaum	14997
Mercury ore, crude	10921
Mercury, metal	10923
Mica	14991
Mica schist, crude, dimension	14119
Mica schist, crushed and broken	14290
Microlite, crude	10999
Microlite, prepared	10999
Millstones	14994
Mine shaft sinking services for anthracite	11120
Mine shaft sinking services for bituminous coal mining	12130
Mine shaft sinking services for lignite mining	12130
Mine shaft sinking services for metal mining	10810
Mine shaft sinking services for nonmetallic minerals (except fuels) mining	14810
Mine tunneling services for anthracite mining	11120
Mine tunneling services for bituminous coal mining	12130
Mine tunneling services for lignite mining	12130
Mine tunneling services for metal mining	10810
Mine tunneling services for nonmetallic minerals (except fuels) mining	14810
Mineral pigments, natural	14790
Molding sand	14465
Molybdenite, crude	10611
Molybdenite, prepared	10612
Molybdenum concentrates	10612
Molybdenum ores, crude	10611
Molybdite, crude	10611
Molybdite, prepared	10612
Monazite, crude	10999
Monazite, prepared	10999
Mouse hole and rat hole drilling for oil or gas field operation	13890
Mud logging for oil or gas field operations	13890
Muscovite	14991

N

Native asphalt	14992
Natural abrasives (except quartz)	14994
Natural gas	13115
Natural gasoline	13212
Nepheline syenite, crude (feldspathic material use)	14596
Nepheline syenite, prepared (feldspathic material use)	14596
Nickel concentrates	10612
Nickel ores, crude	10611

O

Ocher	14790
Oil, crude	13111
Oilstones	14994
Olivine	14599
Onyx marble, crude, dimension	14119
Onyx marble, crushed and broken	14290
Optical grade calcite	14997
Osmium	10997
Overburden stripping services for anthracite mining	11120
Overburden stripping services for bituminous coal mining	12130
Overburden stripping services for lignite mining	12130
Overburden stripping services for metal mining	10810
Overburden stripping services for nonmetallic minerals (except fuels) mining	14810

P

Palladium	10997
Paper clay, crude	14551
Paper clay, prepared	14552
Paraffin services for oil or gas field operations	13890
Pavers	14994

P—Con.

Peat	14995
Pebbles, grinding	14994
Pegmatite (feldspar), crude	14596
Perforating well casing, oil or gas field services	13890
Perlite, crude or prepared	14997
Petroleum, crude	13111
Phlogopite	14991
Phosphate rock, crude, shipped to washer or concentrator	14751
Phosphate rock, dried, calcined or sintered	14752
Phosphate rock, washed or concentrated: shipped to drier	14752
Pigments, mineral, natural	14790
Pinite, crude	14599
Pinite, prepared	14599
Pipe line construction on lease; construction of gathering lines to point where distribution company takes over (oil or gas only)	13890
Pipe testing for oil or gas field operations	13890
Pipestones	14997
Pitchblende, crude	10941
Pitchblende, prepared	10942
Placer gold	10413
Placer silver	10443
Plastic fire clay, crude	14531
Plastic fire clay, prepared	14532
Platinum	10997
Platinum-group metals	10997
Plugging wells, oil or gas field services	13890
Potassium bromide	14742
Potassium salts, crude	14741
Potassium salts, processed or refined	14742
Propane (natural)	13212
Precious stones	14997
Preparation of drilling sites for oil or gas field operations	13890
Prospect and test drilling services for anthracite mining	11120
Prospect and test drilling services for bituminous coal mining	12130
Prospect and test drilling services for lignite mining	12130
Prospect and test drilling services for metal mining	10810
Prospect and test drilling services for nonmetallic minerals (except fuels) mining	14810
Psilomelane, crude, ore for treatment	10611
Pulling casing, tubes, or rods for oil or gas field operations	13890
Pulpstones, natural	14994
Pumice	14993
Pumicite	14993
Pumps installed for oil or gas field operations	13890
Pyrite concentrates	14790
Pyrites, fines	14790
Pyrites, lump ore	14790
Pyrolusite, crude, for treatment	10611
Pyrolusite, prepared	10612
Pyrophyllite, crude	14961
Pyrophyllite flotation concentrates	14962
Pyrophyllite, prepared	14962
Pyrophyllite, sawed, crushed or ground	14962
Pyrrhotite	14790

Q

Quartz crystal (pure)	14997
Quartzite, crushed and broken	14290
Quartzite, ganister, crushed and broken	14290
Quicksilver (metal), prepared at mine site	10923
Quicksilver ore	10921

R

Radium ores	10941
Rare-earth metal concentrates	10999
Rare-earth metal ores, crude	10999
Rat hole and mouse hole drilling for oil and gas field operations	13890
Reconditioning wells for oil or gas field operations	13810
Remedial work, subsurface, for oil or gas field operations	13810
Residue gas	13213
Reworking wells, oil or gas field operations	13810
Rhodium	10997
Rhodochrosite, crude, for treatment	10611

R—Con.

Rhodochrosite, prepared	10612
Rig building, repairing and dismantling oil or gas wells	13890
Rig skidding, for oil or gas field operations	13890
Rigs built, erected, repaired and dismantled for oil or gas field operations	13890
Riprap, granite	14230
Riprap, limestone	14220
Riprap, miscellaneous stone (except limestone and granite)	14290
Roads, board, building of, for oil or gas field operations	13890
Rock salt (sodium chloride)	14760
Rock, volcanic, light colored, crushed and broken	14290
Rocks, volcanic, light colored, rough, dimension	14119
Rolling pipe for oil or gas field operations	13890
Roscoelite, crude	10941
Roscoelite, prepared	10942
Roustabout work for oil or gas field operations	13890
Rubber clay, crude	14551
Rubber clay, prepared	14552
Rubbing stones	14994
Rubble, except limestone and granite	14119
Rubble, limestone	14111
Rubidium	10999
Ruby	14997
Running, cutting and pulling casting, tubes or rods for oil or gas field operations	13890
Ruthenium	10997
Rutile concentrates	10991
Rutile ore, crude	10991

S

Salt, common	14760
Salt, (rock), sodium chloride	14760
Salt water disposal systems, for oil or gas field operations	13890
Sand, blast	14469
Sand blasting pipe lines on lease for oil or gas field operations	13890
Sand, common, crude	14421
Sand, common, prepared	14422
Sand, construction, prepared	14422
Sand, construction, run of pit or bank	14421
Sand, construction, screened	14422
Sand, construction, washed, screened, ground, or prepared	14422
Sand, engine	14469
Sand, filtration	14469
Sand, glass, for melting only	14461
Sand, grinding	14469
Sand, industrial	14469
Sand, oil	14469
Sandstone, bituminous	14992
Sandstone, crude, dimension	14119
Sandstone, crushed and broken	14290
Sapphire	14997
Scandium	10999
Scheelite, crude	10611
Scheelite, prepared	10612
Schist, mica, crude, dimension	14119
Schist, mica, crushed and broken	14290
Scoria	14993
Scythestones	14994
Selenium	10999
Seismograph surveys for oil or gas field operations	13820
Selenite, crude	14921
Selenite, prepared	14922
Semianthracite, mechanically cleaned	12112
Semianthracite, raw, (shipped to preparation plants)	12111
Semiprecious stones	14997
Serpentine, crude, dimension stone	14119
Serpentine, crushed and broken stone	14290
Shale, crude	14597
Shale, prepared	14597
Shell mining	14997
Shooting wells for oil or gas field operations	13890
Shot hole drilling, oil or gas field services	13890
Siderite (carbonate), crude, for treatment	10111
Siderite concentrates, for agglomeration plants not blast furnace	10112
Sienna	14790

S—Con.

Silica (from sand)	14461
Sillimanite, crude	14599
Sillimanite, prepared	14599
Silver concentrates	10442
Silver mill bullion and precipitates recovered by amalgamation	10443
Silver mill bullion and precipitates recovered by cyanidation	10443
Silver ore, crude, for shipment to mills for treatment	10441
Silver ore, crude, and old tailings shipped to mills for treatment	10441
Silver ore, crude, and old tailings shipped to smelters	10441
Silver placer	10443
Sintered iron	10112
Sintered phosphate rock	14752
Skidding of rigs for oil or gas field operations	13890
Slate, crude, dimension stone	14119
Slate, crush and broken	14290
Slate granules, crushed and broken	14290
Slip clay, crude	14551
Slip clay, prepared	14552
Smithsonite, crude, for shipment to mills for treatment	10311
Smithsonite, prepared	10312
Soapstone, crude	14961
Soapstone, crushed, ground or sawed	14962
Soapstone flotation concentrates	14962
Soapstone, prepared	14962
Soda ash, natural	14743
Sodium borates	14744
Sodium carbonates, natural	14743
Sodium chloride (rock salt)	14760
Sodium sulfate	14743
Spar, Iceland, prepared	14997
Sphalerite, crude, for shipment to mill for treatment	10311
Sphalerite, prepared	10312
Spodumene	14790
Spudding in wells for oil or gas field operations	13810
Staurolite	14997
Steam cleaning for oil or gas wells	13890
Steatite, crude	14961
Steatite, prepared	14962
Stone, crude, dimension other than limestone and granite	14119
Stone, crushed and broken, other than granite or limestone	14290
Stone, abrasive	14994
Stoneware fire clay, crude	14531
Stoneware fire clay, prepared	14532
Stratigraphic drilling, oil or gas field exploration	13820
Strip mining services for anthracite mining	11120
Strip mining services for bituminous coal mining	12130
Strip mining services for lignite mining	12130
Strip mining services for metal mining	10810
Strip mining services for nonmetallic minerals (except fuels) mining	14810
Stripping overburden services for anthracite mining	11120
Stripping overburden services for bituminous coal mining	12130
Stripping overburden services for lignite mining	12130
Stripping overburden services for metal mining	10810
Stripping overburden services for nonmetallic minerals (except fuels) mining	14810
Strontianite	14790
Strontium minerals	14790
Subbituminous coal, mechanically crushed, screened or sized	12112
Subbituminous coal, raw, shipment to coal preparation plants	12111
Subsurface remedial work for oil or gas field operations	13810
Sulfate, sodium	14743
Sulfur, native	14770
Surveying wells for oil or gas field operations	13890
Swabbing wells for oil or gas field operations	13890
Syenite (except nepheline), crude, dimension stone	14115
Syenite (except nepheline), crushed and broken	14230
Syenite (nepheline), crude	14596
Syenite (nepheline), prepared	14596
Sylvanite, crude ore for shipment to smelters	10411
Sylvanite, concentrates	10412

T

Taconite pellets	10112
Taconite, crude ore for treatment	10111
Tailing in wells, oil or gas field	13810
Talc, crude	14961
Talc, crushed, ground or sawed	14962
Talc, flotation concentrates	14962
Talc, prepared	14962
Tantalite, crude ore for treatment	10611
Tantalite, prepared	10612
Tantalum, crude ores for direct shipment	10611

Tantalum, prepared	10612
Telluride (gold) mining, crude, for shipment to mills	10411
Tellurium	10996
Testing, drill-stem, for oil or gas field operations	13890
Testing, pipe, for oil or gas field operations	13890
Thallium	10999
Thorite, crude	10999
Thorite, prepared	10999
Thorium ores, crude	10999

Thorium, prepared	10999
Tripoli	14994
Trona	14743
Tufa, calcareous, crude, dimension	14111
Tufa, calcareous, crushed and broken	14220
Tungsten concentrates	10612
Tungsten ores, crude	10611
Turquoise	14997

U

Ulexite	14744
Umber	14790
Uraninite, crude	10941
Uraninite, prepared	10942
Uranium-vanadium concentrates	10942
Uranium-vanadium ore, crude	10941

V

Vacuum truck service for oil or gas field operations	13890
Vanadium, concentrates	10942
Vanadium ores, crude	10941
Verde antique, rough, dimension stone	14119
Verde antique, crushed and broken stone	14290

V—Con.

Vermiculite	14997
Volcanic ash	14993
Volcanic rock, light colored, rough, dimension	14119
Volcanic rock, light colored, crushed and broken	14290

W

Washeries, anthracite	11112
Washeries, bituminous coal	12112
Water injection or flooding for oil or gas field operations	13890
Water intake well drilling for oil or gas field operations	13810
Well casing running, cutting and pulling for oil or gas field operations	13890
Well logging, oil or gas field	13890
Well plugging, for oil or gas field operations	13890
Well surveying, for oil or gas field operations	13890
Wellhead fittings, installed for oil or gas field operations	13890
Wells, oil, gas, dry, or service: reworking	13810

Wells, oil, gas, or service: drilling in, spudding in, tailing in	13810
Whetstones	14994
Whiting, crushed and broken	14220
Willemite, crude, for shipment to smelters	10311
Willemite, prepared	10312
Wireline services for oil or gas field operations	13890
Wolframite, crude	10611
Wolframite, prepared	10612
Wollastonite	14997
Workover of wells for oil or gas field operations	13810

Wulfenite, crude	10611
Wulfenite, prepared	10612
Wurtzilite	14992

Y

Yttrium, prepared	10999
-------------------	-------

Z

Zinc concentrates	10312
Zinc ore, crude, for shipment to smelters	10311
Zinc ore, crude, and old tailings shipped to mills for treatment	10311
Zinc ore, crude, and old tailings shipped to smelters	10311
Zirconium concentrates	10999
Zirconium ores, crude	10999

APPENDIX E.

Reporting Forms

This appendix contains reproductions of a representative selection of the reporting forms used in the 1982 Economic Censuses with emphasis on the census of mineral industries. The use of each of the forms is described in the Introduction, item 7, Reporting Forms. Following is a list of forms included in this appendix:

Number	Title	Number	Title
NC-9901	Report of Organization —This company-wide report was used prior to mailing the 1982 census questionnaires to develop the directory of establishments operated by multiunit companies.	ES-9100	Enterprise Summary Report —This form was sent to each large multiestablishment company in addition to a specific questionnaire for each establishment and requested consolidated company totals of selected data.
NC-9920	Listing of Additional Establishments —This form was mailed to all multiestablishment companies to obtain a list of establishments that were acquired after the NC-9901 was filed.	ES-9200	Auxiliary Establishment Report —This form was completed by establishments whose function was to provide centralized administrative, management, or other supporting services for other establishments of the same company, but not for the general public or other companies.
NC-9923	General Schedule —This questionnaire was used to obtain information from small companies for which the industry code available in the Social Security Administration records were not precise enough to indicate which one of the standard questionnaires should be mailed.	MC-1201	Coal Report Form (including instruction sheet) —This is a typical example of the types of general statistics, supplies, product and service, and special inquiry questions asked and how each form was tailored to reflect the uniqueness of each industry.

FORM NC-9901 (Items 1-4)
(2-19-82)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS1982 ECONOMIC CENSUSES
REPORT OF ORGANIZATION

NOTICE - Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report
please refer to this CENSUS FILE NUMBER (CFN)

Census use only

Unit	Item/line	Unit	Item/line	Unit	Item/line

(Please correct any errors in name and address including ZIP code)

ACT	CCS	DOC
-----	-----	-----

Important - Please read

Please complete this report by February 15, 1983 and

RETURN ORIGINAL COPY TO - -

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

NOTE - Shaded boxes are for Bureau of the Census use only

Item 1 - CERTIFICATION

Name of person to contact regarding this report	Address (If different from above address)	Telephone		
		Area code	Number	Extension
This report is substantially accurate.				
Signature of authorized person	Title	Date		

Item 2 - COMPANY OWNERSHIP OR CONTROL

2a. Does another U.S. (domestic) company own more than 50 percent of the voting stock of your company OR have the power to control the management and policies of your company?

1 ☐ YES - Enter the following information on the owning or controlling company and go to Item 2b.2 ☐ NO - Go to Item 2b

Name of owning or controlling company	Home office address (Number and street, city, State, and ZIP code)	Employer Identification Number of owning or controlling company
		-
Percent of voting stock owned - Mark (X) one → 1 <input type="checkbox"/> Less than 50% 2 <input type="checkbox"/> 50% 3 <input type="checkbox"/> More than 50%		

2b. Does a foreign entity (company, individual, government, etc.) own directly or indirectly 10 percent or more of the voting stock or other equity rights of your company?

1 ☐ YES - Enter the following information on the owning entity and go to Item 3.2 ☐ NO - Go to Item 3

Name of foreign beneficial owner	Home office address (Number and street, city, country)
Percent of ownership - Mark (X) one → 1 <input type="checkbox"/> Less than 10% 2 <input type="checkbox"/> 10-24% 3 <input type="checkbox"/> 25-49% 4 <input type="checkbox"/> 50% 5 <input type="checkbox"/> 51-99% 6 <input type="checkbox"/> 100%	

Item 3 - FOREIGN AFFILIATES

Does this enterprise alone, or with its domestic affiliates, own 10 percent or more of the voting stock of an incorporated foreign business enterprise, or an equivalent interest in an unincorporated foreign business enterprise, including ownership of real estate?

1 ☐ YES - Go to Item 42 ☐ NO - Go to Item 4

Item 4 - TYPE OF ORGANIZATION

4a. Mark (X) the one box which best applies to your organization. Also answer 4b below.

- 1 ☐ Individual proprietorship
2 ☐ Partnership
3 ☐ Cooperative association (taxable)
4 ☐ Cooperative association (tax-exempt)
5 ☐ Governmental - Specify _____
6 ☐ Corporation (Do not mark if any form of cooperative association.)
9 ☐ Other - Specify _____

4b. Was all or part of the income of this organization exempt from Federal income taxes under section 501 or 521 of the Internal Revenue Code for "nonprofit" organizations?

1 ☐ YES2 ☐ NO

1982 ECONOMIC CENSUSES
REPORT OF ORGANIZATIONRefer to this
CENSUS FILE NUMBER
in any correspondence
pertaining to this report

Item 5A - ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1982 EMPLOYMENT AND PAYROLL

This item should include an up-to-date list of all establishments of your company and its subsidiaries for which separate establishment reports are not required for the 1982 Economic Censuses. Please correct any errors or omissions in the prelist information in column (a). Report number of employees and payroll for each establishment (including part-year operation) in column (b). Please do not combine data for establishments. If

book figures are not available for providing employment and payroll data for each establishment, please provide your best estimates. Report status of each establishment as of the end of 1982 in column (c). Please read the definitions and instructions on the reverse side before completing this item.

Line No.	Employer Identification (EI) Number, establishment name, address of physical location (including ZIP code), and major activity <i>Add store or plant number, if any, and correct any errors or omissions</i>		1982 Establishment data		Status of establishment at end of 1982 <i>Mark (X) one box and complete as indicated</i>	
	(a)	(b)	(c)			
	<div>EMPLOYER ID NO.</div> <div>NAME</div> <div>STORE OR PLANT NO.</div> <div>NUMBER AND STREET OF PHYSICAL LOCATION</div> <div>CITY</div> <div>STATE</div> <div>ZIP</div> <div>CENSUS FILE NO.</div> <div>TO</div> <div>INO</div> <div>TAB</div> <div>WT</div> <div>GEO</div> <div>SC</div> <div>TE</div> <div>CCS</div> <div>NIO</div>	<div>Employees (during pay period including March 12, 1982)</div> <div>Payroll for 1st quarter of 1982 before deductions</div> <div>Total annual payroll for 1982 before deductions</div> <div>Mil.</div> <div>Thou.</div> <div>Dol.</div>	<div><input type="checkbox"/> 1 In operation</div> <div><input type="checkbox"/> 2 Idle or inactive (but still owned) → MO. YR.</div> <div><input type="checkbox"/> 3 Closed (no new owner or operator), dismantled, or destroyed on →</div> <div><input type="checkbox"/> 4 Sold or leased to another operator - Give date at right AND enter name, etc., below</div> <div>NAME OF NEW OWNER OR OPERATOR</div> <div>NUMBER AND STREET</div> <div>CITY</div> <div>STATE</div> <div>ZIP CODE</div> <div><input type="checkbox"/> 5 Other - Describe →</div>			
	<div>EMPLOYER ID NO.</div> <div>NAME</div> <div>STORE OR PLANT NO.</div> <div>NUMBER AND STREET OF PHYSICAL LOCATION</div> <div>CITY</div> <div>STATE</div> <div>ZIP</div> <div>CENSUS FILE NO.</div> <div>TO</div> <div>INO</div> <div>TAB</div> <div>WT</div> <div>GEO</div> <div>SC</div> <div>TE</div> <div>CCS</div> <div>NIO</div>	<div>Employees (during pay period including March 12, 1982)</div> <div>Payroll for 1st quarter of 1982 before deductions</div> <div>Total annual payroll for 1982 before deductions</div> <div>Mil.</div> <div>Thou.</div> <div>Dol.</div>	<div><input type="checkbox"/> 1 In operation</div> <div><input type="checkbox"/> 2 Idle or inactive (but still owned) → MO. YR.</div> <div><input type="checkbox"/> 3 Closed (no new owner or operator), dismantled, or destroyed on →</div> <div><input type="checkbox"/> 4 Sold or leased to another operator - Give date at right AND enter name, etc., below</div> <div>NAME OF NEW OWNER OR OPERATOR</div> <div>NUMBER AND STREET</div> <div>CITY</div> <div>STATE</div> <div>ZIP CODE</div> <div><input type="checkbox"/> 5 Other - Describe →</div>			
	<div>EMPLOYER ID NO.</div> <div>NAME</div> <div>STORE OR PLANT NO.</div> <div>NUMBER AND STREET OF PHYSICAL LOCATION</div> <div>CITY</div> <div>STATE</div> <div>ZIP</div> <div>CENSUS FILE NO.</div> <div>TO</div> <div>INO</div> <div>TAB</div> <div>WT</div> <div>GEO</div> <div>SC</div> <div>TE</div> <div>CCS</div> <div>NIO</div>	<div>Employees (during pay period including March 12, 1982)</div> <div>Payroll for 1st quarter of 1982 before deductions</div> <div>Total annual payroll for 1982 before deductions</div> <div>Mil.</div> <div>Thou.</div> <div>Dol.</div>	<div><input type="checkbox"/> 1 In operation</div> <div><input type="checkbox"/> 2 Idle or inactive (but still owned) → MO. YR.</div> <div><input type="checkbox"/> 3 Closed (no new owner or operator), dismantled, or destroyed on →</div> <div><input type="checkbox"/> 4 Sold or leased to another operator - Give date at right AND enter name, etc., below</div> <div>NAME OF NEW OWNER OR OPERATOR</div> <div>NUMBER AND STREET</div> <div>CITY</div> <div>STATE</div> <div>ZIP CODE</div> <div><input type="checkbox"/> 5 Other - Describe →</div>			
	<div>EMPLOYER ID NO.</div> <div>NAME</div> <div>STORE OR PLANT NO.</div> <div>NUMBER AND STREET OF PHYSICAL LOCATION</div> <div>CITY</div> <div>STATE</div> <div>ZIP</div> <div>CENSUS FILE NO.</div> <div>TO</div> <div>INO</div> <div>TAB</div> <div>WT</div> <div>GEO</div> <div>SC</div> <div>TE</div> <div>CCS</div> <div>NIO</div>	<div>Employees (during pay period including March 12, 1982)</div> <div>Payroll for 1st quarter of 1982 before deductions</div> <div>Total annual payroll for 1982 before deductions</div> <div>Mil.</div> <div>Thou.</div> <div>Dol.</div>	<div><input type="checkbox"/> 1 In operation</div> <div><input type="checkbox"/> 2 Idle or inactive (but still owned) → MO. YR.</div> <div><input type="checkbox"/> 3 Closed (no new owner or operator), dismantled, or destroyed on →</div> <div><input type="checkbox"/> 4 Sold or leased to another operator - Give date at right AND enter name, etc., below</div> <div>NAME OF NEW OWNER OR OPERATOR</div> <div>NUMBER AND STREET</div> <div>CITY</div> <div>STATE</div> <div>ZIP CODE</div> <div><input type="checkbox"/> 5 Other - Describe →</div>			
	<div>EMPLOYER ID NO.</div> <div>NAME</div> <div>STORE OR PLANT NO.</div> <div>NUMBER AND STREET OF PHYSICAL LOCATION</div> <div>CITY</div> <div>STATE</div> <div>ZIP</div> <div>CENSUS FILE NO.</div> <div>TO</div> <div>INO</div> <div>TAB</div> <div>WT</div> <div>GEO</div> <div>SC</div> <div>TE</div> <div>CCS</div> <div>NIO</div>	<div>Employees (during pay period including March 12, 1982)</div> <div>Payroll for 1st quarter of 1982 before deductions</div> <div>Total annual payroll for 1982 before deductions</div> <div>Mil.</div> <div>Thou.</div> <div>Dol.</div>	<div><input type="checkbox"/> 1 In operation</div> <div><input type="checkbox"/> 2 Idle or inactive (but still owned) → MO. YR.</div> <div><input type="checkbox"/> 3 Closed (no new owner or operator), dismantled, or destroyed on →</div> <div><input type="checkbox"/> 4 Sold or leased to another operator - Give date at right AND enter name, etc., below</div> <div>NAME OF NEW OWNER OR OPERATOR</div> <div>NUMBER AND STREET</div> <div>CITY</div> <div>STATE</div> <div>ZIP CODE</div> <div><input type="checkbox"/> 5 Other - Describe →</div>			

1982 ECONOMIC CENSUSES
REPORT OF ORGANIZATIONPLEASE ENTER YOUR
CENSUS FILE NUMBER
(See front page)Item 5B - LISTING OF ADDITIONAL ESTABLISHMENTS OPERATED BY YOUR
COMPANY AND ITS SUBSIDIARIES

■ Column (e) - List separately any establishments of your company and its subsidiaries, located in the U. S. or any of its territories, which are not accounted for in Item 5A or on other report forms in this mailing package, but were in operation or under construction during part or all of 1982.

■ Instructions for questions (e) and (f) - Answer question (e) for acquired establishments. Complete question (f) entering the date the establishment opened. If not yet in operation, enter the expected opening date and the expected employment.

■ Column (b) - Complete this column for each listed establishment.

■ Column (c) - Mark (X) the box which best describes the activity of each establishment.

See box codes

■ Column (d) - Describe major activity or list principal products or services.

■ NOTE: Additional copies of Item 5B are available upon request to Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47134. If you prefer, you may use your own paper to list additional establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

DESCRIPTION AND CODES FOR COLUMN (c)

- | | |
|---|---|
| 1 - Agricultural production | 12 - Transportation, communications, and public utilities |
| 2 - Agricultural services | 13 - Legal, educational, or health services |
| 3 - Mining | 14 - Services |
| 4 - Construction | 15 - Auxiliary establishments such as storage warehouses and research laboratories primarily providing service to your own or affiliated company rather than customers or clients |
| 5 - Merchant wholesalers | 16 - Central Administrative Office: accounting, purchasing, legal activities for your own company |
| 6 - Commission merchant/broker/agent | 17 - Other - Specify major activity in column (d) below |
| 7 - Manufacturers' sales branches, manufacturers' sales offices | |
| 8 - Manufacturing | |
| 9 - Finance, insurance, or real estate | |
| 10 - Retail | |
| 11 - Retail concessions/departments in retail stores | |

Line No.	Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code)	1982 establishment data		Business or activity in 1982	
		Report number of employees and payroll for each establishment (including part-year operations)	Major activity Mark (X) one box from the above descriptions	Description of major activity or principal products or services	
(a)	(b)	(c)	(d)		
	EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? DATE ACQUIRED NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment	Employees (during pay period including March 12, 1982) Payroll for 1st quarter of 1982 before deductions Total annual payroll for 1982 before deductions CENSUS FILE NO. Census use only TAB WT CCS OID FORM	1 [] 10 [] 2 [] 11 [] 3 [] 12 [] 4 [] 13 [] 5 [] 14 [] 6 [] 15 [] 7 [] 16 [] 8 [] 17 [] 9 [] GEO		
	EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? DATE ACQUIRED NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment	Employees (during pay period including March 12, 1982) Payroll for 1st quarter of 1982 before deductions Total annual payroll for 1982 before deductions CENSUS FILE NO. Census use only TAB WT CCS OID FORM	1 [] 10 [] 2 [] 11 [] 3 [] 12 [] 4 [] 13 [] 5 [] 14 [] 6 [] 15 [] 7 [] 16 [] 8 [] 17 [] 9 [] GEO		
	EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? DATE ACQUIRED NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment	Employees (during pay period including March 12, 1982) Payroll for 1st quarter of 1982 before deductions Total annual payroll for 1982 before deductions CENSUS FILE NO. Census use only TAB WT CCS OID FORM	1 [] 10 [] 2 [] 11 [] 3 [] 12 [] 4 [] 13 [] 5 [] 14 [] 6 [] 15 [] 7 [] 16 [] 8 [] 17 [] 9 [] GEO		
	EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? DATE ACQUIRED NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment	Employees (during pay period including March 12, 1982) Payroll for 1st quarter of 1982 before deductions Total annual payroll for 1982 before deductions CENSUS FILE NO. Census use only TAB WT CCS OID FORM	1 [] 10 [] 2 [] 11 [] 3 [] 12 [] 4 [] 13 [] 5 [] 14 [] 6 [] 15 [] 7 [] 16 [] 8 [] 17 [] 9 [] GEO		

FORM NC-9920

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS**1982 ECONOMIC CENSUSES**
LISTING OF ADDITIONAL ESTABLISHMENTSPlease complete this
form and RETURN TOBUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

NOTE - Additional copies of this form are available upon request. If you prefer, list additional establishments on your own paper. **BE SURE TO ENTER THE CENSUS FILE NUMBER** in the upper right-hand corner of each additional sheet.

NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report,
please refer to this Census File Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Item 1 - Does your organization or any of its subsidiaries have any establishments located in the United States or any of its territories which are not accounted for on other report forms in this mailing package?

☐ YES - Go to item 2☐ NO - Complete CERTIFICATION on reverse side and return report**Item 2 - LISTING OF ADDITIONAL ESTABLISHMENTS**

Column (a) - Complete this column for each establishment that you list.

Column (b) - Mark (X) the box which best describes the principal activity of each establishment using the following code box descriptions:

- 1 - Agricultural production
- 2 - Agricultural services
- 3 - Mining
- 4 - Construction
- 5 - Merchant wholesalers
- 6 - Commission merchant/broker/agent
- 7 - Manufacturers' sales branches, manufacturers' sales offices
- 8 - Manufacturing
- 9 - Finance, insurance, or real estate
- 10 - Retail
- 11 - Retail concessions/departments in retail stores

12 - Transportation, communications, and public utilities

13 - Legal, educational, or health services

14 - Services

15 - Auxiliary establishments such as storage warehouses and research laboratories primarily providing service to your own or affiliated company rather than customers or clients

16 - Central Administrative Office: accounting, purchasing, legal activities for your own company

17 - Other - Specify in column (c) below

Column (c) - List in order of importance the principal products mined or made; kinds of wholesale or retail business; types of services provided; kinds of construction work done, or the types of crops grown or animals raised, etc.

Column (d) - Complete as indicated.

NOTE - Please return this report form whether or not you report additional establishments.

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code)	Principal activity Mark (X) one box from the above descriptions	Description of products, business, services, etc. List in order of importance	Operating status
(a)	(b)	(c)	(d)
EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE CENSUS FILE NO. SC TO IND FORM TAB BY CCS DID	1 <input type="checkbox"/> 10 <input type="checkbox"/> 2 <input type="checkbox"/> 11 <input type="checkbox"/> 3 <input type="checkbox"/> 12 <input type="checkbox"/> 4 <input type="checkbox"/> 13 <input type="checkbox"/> 5 <input type="checkbox"/> 14 <input type="checkbox"/> 6 <input type="checkbox"/> 15 <input type="checkbox"/> 7 <input type="checkbox"/> 16 <input type="checkbox"/> 8 <input type="checkbox"/> 17 <input type="checkbox"/> 9 <input type="checkbox"/>		Date establishment opened or is expected to open MONTH YEAR EXPECTED EMPLOYMENT Was this establishment acquired from another company? <input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE CENSUS FILE NO. SC TO IND FORM TAB BY CCS DID	1 <input type="checkbox"/> 10 <input type="checkbox"/> 2 <input type="checkbox"/> 11 <input type="checkbox"/> 3 <input type="checkbox"/> 12 <input type="checkbox"/> 4 <input type="checkbox"/> 13 <input type="checkbox"/> 5 <input type="checkbox"/> 14 <input type="checkbox"/> 6 <input type="checkbox"/> 15 <input type="checkbox"/> 7 <input type="checkbox"/> 16 <input type="checkbox"/> 8 <input type="checkbox"/> 17 <input type="checkbox"/> 9 <input type="checkbox"/>		Date establishment opened or is expected to open MONTH YEAR EXPECTED EMPLOYMENT Was this establishment acquired from another company? <input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE CENSUS FILE NO. SC TO IND FORM TAB BY CCS DID	1 <input type="checkbox"/> 10 <input type="checkbox"/> 2 <input type="checkbox"/> 11 <input type="checkbox"/> 3 <input type="checkbox"/> 12 <input type="checkbox"/> 4 <input type="checkbox"/> 13 <input type="checkbox"/> 5 <input type="checkbox"/> 14 <input type="checkbox"/> 6 <input type="checkbox"/> 15 <input type="checkbox"/> 7 <input type="checkbox"/> 16 <input type="checkbox"/> 8 <input type="checkbox"/> 17 <input type="checkbox"/> 9 <input type="checkbox"/>		Date establishment opened or is expected to open MONTH YEAR EXPECTED EMPLOYMENT Was this establishment acquired from another company? <input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR

Continued on reverse side

Item 2 - LISTING OF ADDITIONAL ESTABLISHMENTS - Continued				
Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code)		Principal activity Mark (X) one box from the above descriptions	Description of products, business, services, etc. List in order of importance	Operating status
(a)		(b)	(c)	(d)
EMPLOYER IDENTIFICATION NUMBER		1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open
NAME		2 <input type="checkbox"/> 11 <input type="checkbox"/>		MONTH YEAR EXPECTED EMPLOYMENT
NUMBER AND STREET OF PHYSICAL LOCATION		3 <input type="checkbox"/> 12 <input type="checkbox"/>		
CITY		4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
STATE ZIP CODE		5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR
Census use only CENSUS FILE NO. SC TO IND FORM		6 <input type="checkbox"/> 15 <input type="checkbox"/>		
TAB WT CCS OID		7 <input type="checkbox"/> 16 <input type="checkbox"/>		NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
		8 <input type="checkbox"/> 17 <input type="checkbox"/>		
		9 <input type="checkbox"/>	GEO	
EMPLOYER IDENTIFICATION NUMBER		1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open
NAME		2 <input type="checkbox"/> 11 <input type="checkbox"/>		MONTH YEAR EXPECTED EMPLOYMENT
NUMBER AND STREET OF PHYSICAL LOCATION		3 <input type="checkbox"/> 12 <input type="checkbox"/>		
CITY		4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
STATE ZIP CODE		5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR
Census use only CENSUS FILE NO. SC TO IND FORM		6 <input type="checkbox"/> 15 <input type="checkbox"/>		
TAB WT CCS OID		7 <input type="checkbox"/> 16 <input type="checkbox"/>		NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
		8 <input type="checkbox"/> 17 <input type="checkbox"/>		
		9 <input type="checkbox"/>	GEO	
EMPLOYER IDENTIFICATION NUMBER		1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open
NAME		2 <input type="checkbox"/> 11 <input type="checkbox"/>		MONTH YEAR EXPECTED EMPLOYMENT
NUMBER AND STREET OF PHYSICAL LOCATION		3 <input type="checkbox"/> 12 <input type="checkbox"/>		
CITY		4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
STATE ZIP CODE		5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR
Census use only CENSUS FILE NO. SC TO IND FORM		6 <input type="checkbox"/> 15 <input type="checkbox"/>		
TAB WT CCS OID		7 <input type="checkbox"/> 16 <input type="checkbox"/>		NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
		8 <input type="checkbox"/> 17 <input type="checkbox"/>		
		9 <input type="checkbox"/>	GEO	
EMPLOYER IDENTIFICATION NUMBER		1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open
NAME		2 <input type="checkbox"/> 11 <input type="checkbox"/>		MONTH YEAR EXPECTED EMPLOYMENT
NUMBER AND STREET OF PHYSICAL LOCATION		3 <input type="checkbox"/> 12 <input type="checkbox"/>		
CITY		4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
STATE ZIP CODE		5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR
Census use only CENSUS FILE NO. SC TO IND FORM		6 <input type="checkbox"/> 15 <input type="checkbox"/>		
TAB WT CCS OID		7 <input type="checkbox"/> 16 <input type="checkbox"/>		NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
		8 <input type="checkbox"/> 17 <input type="checkbox"/>		
		9 <input type="checkbox"/>	GEO	
EMPLOYER IDENTIFICATION NUMBER		1 <input type="checkbox"/> 10 <input type="checkbox"/>		Date establishment opened or is expected to open
NAME		2 <input type="checkbox"/> 11 <input type="checkbox"/>		MONTH YEAR EXPECTED EMPLOYMENT
NUMBER AND STREET OF PHYSICAL LOCATION		3 <input type="checkbox"/> 12 <input type="checkbox"/>		
CITY		4 <input type="checkbox"/> 13 <input type="checkbox"/>		Was this establishment acquired from another company?
STATE ZIP CODE		5 <input type="checkbox"/> 14 <input type="checkbox"/>		<input type="checkbox"/> YES <input type="checkbox"/> NO DATE ACQUIRED MONTH YEAR
Census use only CENSUS FILE NO. SC TO IND FORM		6 <input type="checkbox"/> 15 <input type="checkbox"/>		
TAB WT CCS OID		7 <input type="checkbox"/> 16 <input type="checkbox"/>		NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
		8 <input type="checkbox"/> 17 <input type="checkbox"/>		
		9 <input type="checkbox"/>	GEO	

Item 3	Name of person to contact regarding this report	Address (if different from label address)	Area code	Telephone number	Extension
CERTIFICATION	This report (including attached continuation pages) is substantially accurate and has been prepared in accordance with instructions.				
	Signature of authorized person		Title		Date

FORM NC-9920



DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM

NC-9923

1982 ECONOMIC CENSUSES

GENERAL SCHEDULE

O.M.B. APPROVAL NO. 0607-0403: EXPIRES 12/83

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process**.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

DUE DATE: 15 DAYS AFTER RECEIPT

The Bureau of the Census is now updating the industrial classifications and physical locations of organizations in the United States. Please answer the questions on this form and return it in the enclosed envelope within 15 days.

NOTE — Please read the accompanying instructions before answering the questions.

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

NC-9923

Please correct errors in name, address, and ZIP code. ENTER street and number if not shown.

Item 1 — EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number shown in the label the SAME as that used for this establishment on its latest 1982 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094

1 ☐ YES

2 ☐ NO — Enter current EI Number →

(9 digits)

Item 2 — PHYSICAL LOCATION OF ESTABLISHMENT

Answer items a, b, c, and d

NOTE: P.O. boxes or rural routes are not physical locations.

a. ☐ Same as shown in mailing label. If different, indicate change.

NUMBER AND STREET

CITY, TOWN, VILLAGE, ETC.

STATE

ZIP CODE

b. Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095 1 ☐ YES

2 ☐ NO

3 ☐ No legal boundaries

4 ☐ Don't know

c. Type of municipality where physically located

096 1 ☐ City, village, or borough

2 ☐ Town or township

3 ☐ Other or don't know

d. Name of county where physically located

HOW TO REPORT DOLLAR FIGURES

Value figures may be reported in dollars or rounded to thousands.

Example: If a figure is \$1,125,628, report either

• Preferred
Acceptable

Mil- lions (000)	Thou- sands (000)	Dol- lars (000)
1	126	
1	125	628

Item 3 — DOLLAR VOLUME OF BUSINESS IN 1982

Mil.	Thou.	Dol.
010		

Sales of merchandise and other operating receipts/revenues EXCLUDING sales (or other) taxes collected

Item 4 — SOURCE OF SALES, RECEIPTS, OR REVENUE

List below the principal lines of merchandise sold, construction work done, products produced or services provided, and indicate the approximate percentage each was of the total dollar volume of business in 1982 as reported in item 3 (e.g., gasoline 85%, auto repairs 10%, oil 5%).

Source	Percent
	%
	%
	%
	%
	%
	%
TOTAL — Should equal 100%	100 %

Item 5 — CLASS OF CUSTOMER

To whom do you sell most of your products or provide your services?

To the general public (household consumers and individuals)..... 1 ☐

To retail or wholesale establishments..... 2 ☐

To construction contractors..... 3 ☐

To institutional, industrial, commercial, professional, government, or farm users..... 4 ☐

Other customers — Specify _____ 5 ☐

PENALTY FOR FAILURE TO REPORT

CONTINUE ON PAGE 2 →

Item 6 — BUSINESS OR ACTIVITY

Mark (X) the **ONE** box which best describes the **PRINCIPAL** activity of this establishment in 1982.

070

8811002 ☐ **Private household** (employing domestic help, e.g., cooks, maids, gardeners, secretaries, etc.)

RETAIL TRADE (R)

- 5813001 ☐ Bar or tavern
 5912100 ☐ Drug store (prescriptions filled)
 5541107 ☐ Gasoline service station
 5411103 ☐ Grocery store
 5251004 ☐ Hardware store
 5921002 ☐ Liquor store
 5511001 ☐ New car dealer
 5812102 ☐ Restaurant (full service)
 5812409 ☐ Restaurant (limited menu, e.g., fast food)
 5521000 ☐ Used car dealer
 5931308 ☐ Used merchandise store
 9999996 ☐ Other kind of retail business — *Specify type*

SERVICE (S)

- 8931008 ☐ Accounting, auditing, or bookkeeping service
 8111106 ☐ Attorney's office, including legal aid service
 7531006 ☐ Automotive body shop
 7538101 ☐ Automotive repair shop, general
 7241003 ☐ Barber shop
 7231004 ☐ Beauty shop
 7349004 ☐ Building cleaning and maintenance service
 8351009 ☐ Child day care center
 8661001 ☐ Church, synagogue, convent, monastery, etc.
 8641003 ☐ Civic, social, or fraternal association
 7215106 ☐ Coin-operated laundry
 8021008 ☐ Dentist's office
 8011108 ☐ Medical doctor's office
 7392301 ☐ Management consulting service
 7011307 ☐ Motel or tourist court
 7622004 ☐ Radio and television repair shop
 9999996 ☐ Other kind of service — *Specify type*

WHOLESALE TRADE (W)

- ☐ Merchant wholesaler
☐ Agent or broker
☐ Other type of wholesaler — *Specify type*

CONSTRUCTION (C)

- ☐ Building construction — General contractor
☐ Highway or heavy construction — Contractor
☐ Special trade contractor
 1751007 ☐ Carpentry contractor
 1731009 ☐ Electrical contractor
 1721000 ☐ Painting contractor
 1711001 ☐ Plumbing, heating or air conditioning contractor
 9999996 ☐ Other special trade contractor — *Specify type*
 6552004 ☐ Subdividers and developers, except cemeteries

TRUCKING (T)

- 4214003 ☐ Local trucking and storage
 4212007 ☐ Local trucking, without storage
 4213005 ☐ Trucking, except local
- } ICC Regulated?
 1 ☐ YES
 2 ☐ NO

FINANCE, INSURANCE, AND REAL ESTATE (F)

- 6146005 ☐ Installment sales finance institution
 6411003 ☐ Insurance agents, brokers or related services
 6513006 ☐ Owner-operator of apartment building(s)
 6531008 ☐ Real estate agent or manager
 6515001 ☐ Residential mobile home site
 9999996 ☐ Other kind of finance, insurance, or real estate — *Specify type*

- ☐ **AGRICULTURAL PRODUCTION OR SERVICE (A)**
☐ **MINERALS EXTRACTION OR SERVICE (I)**
☐ **MANUFACTURING (M)**
☐ **OTHER BUSINESS OR ACTIVITY — Specify type**

Item 7 — REMARKS**Item 8 — CERTIFICATION** — This report is substantially accurate and has been prepared in accordance with instructions.Name of person to contact regarding this report — *Print or type*Telephone \longrightarrow

Area code

Number

Extension

Signature of authorized person

Date



NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47134

DUE DATE: FEBRUARY 15, 1983

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read the instructions before answering the questions.

CENSUS
USE
ONLY

In correspondence pertaining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI) Number

ES-9100

Please correct errors in name, address, and ZIP code. ENTER street and number if not shown.

IMPORTANT — This is an enterprise summary report

GENERAL INSTRUCTIONS

Purpose of this form

- The purpose of this form is to obtain accurate, unduplicated (NET) consolidated information for all domestic activities of your enterprise.

What is an enterprise?

- An enterprise is a business, service, or membership organization consisting of one or more establishments under common, direct, or indirect ownership or control.
- An enterprise is the highest level of establishment aggregation. If an enterprise owns or controls subsidiary companies or firms, all establishments of the subsidiaries are included as part of the owning or controlling enterprise.
- An enterprise may vary in composition ranging from a single legal entity (e.g., corporation, partnership, etc.) to a complex family of legal entities under common ownership or control.

What should be reported?

- Include your enterprise's activities in all 50 States and the District of Columbia. Do not include activities in foreign countries or U.S. possessions such as Puerto Rico, Guam, etc., if any, except for reporting foreign assets in item I.
- Include all subsidiaries whether or not they are consolidated in your enterprise's books.
- Consolidate all domestic activities whether or not they are covered in the 1982 Economic Censuses by individual report forms.
- Report consolidated, net information. Exclude domestic intra-enterprise transfers.
- If book figures are not available, enter your best estimate. Be sure to complete every item. Enter "0" in items where appropriate.
- For assistance in completing this form, call the Bureau's Enterprise Statistics Branch (301) 763-7078.

HOW TO REPORT DOLLAR FIGURES

Value figures may be reported in dollars or rounded to thousands
Example: If a figure is \$1,125,628, report either

• **PREFERRED method**
• **Acceptable method**

Mil- lions (000)	Thou- sands (000)	Col- lars (000)
1	125	
1	125	628

Item A — SALES AND RECEIPTS IN 1982

Report consolidated net sales and business receipts of your enterprise as reported on your income statement excluding sales or other taxes collected.

INCLUDE • Operating receipts from taxable operations as well as total revenues from tax-exempt activities
• Export transfers to your foreign subsidiaries

EXCLUDE • Domestic intra-enterprise transfers • Sales and other taxes collected and paid directly to federal, state, or local taxing agencies
• Sales by foreign subsidiaries
• Nonoperating income

1. Sales and other operating receipts in 1982

Key	Mil.	Thou.	Col.
010			

Item B — PAYROLL AND EMPLOYMENT

PAYROLL

INCLUDE • Gross earnings paid to employees prior to such deductions as:
• Employee's Social Security contributions
• Withholding taxes
• Group insurance premiums

• All wages and salaries including:
• Commissions and paid bonuses
• Dismissal pay
• Salaries of officers if a corporation

• Union dues
• Savings bonds
• Vacation and sick pay
• Cash equivalent of compensation paid in kind

EXCLUDE • Payments to proprietors or partners of unincorporated businesses
• Employer's cost for fringe benefits (supplemental labor costs)

EMPLOYMENT

INCLUDE • Paid employees during the pay period including March 12, 1982
• Persons on paid sick leave, paid holidays, and paid vacations
• Full- and part-time employees

EXCLUDE • Proprietors or partners of unincorporated businesses

PAYROLL IN 1982 BEFORE DEDUCTIONS

2. Total ANNUAL payroll

3. FIRST QUARTER payroll

EMPLOYMENT IN 1982

4. Number of paid employees for the pay period including March 12

Key	Mil.	Thou.	Col.
030			
031			
032			

Item C — EMPLOYER'S COST FOR FRINGE BENEFITS IN 1982 (SUPPLEMENTAL LABOR COSTS)

REQUIRED BY LAW — Include payments for:

• Employer's Social Security tax
• Unemployment tax

• Workmen's compensation insurance
• State disability insurance programs

VOLUNTARY PROGRAMS — Include payments for:

• Insurance premiums on hospital and medical plans
• Life insurance premiums
• Pension plans
• Union negotiated benefits
• Welfare plans
• Stock purchase plans

5. Legally required programs

6. Voluntary programs

7. TOTAL fringe benefits — Sum of lines 5 and 6

Key	Mil.	Thou.	Col.
035			
036			
037			

Item D — SELECTED OPERATING EXPENSES IN 1982

Line 8 — Royalty payments — Report amount paid to unaffiliated organizations or individuals for the use of intangible property rights (patents, trademarks, copyrights, processes, use of natural resources, etc.).

Line 9 — Advertising services — Report the amount paid to others for advertising services.

Lines 10-13 — Rental payments (excluding land) — Report rental payments made to other enterprises for use of buildings, structures, machinery, and equipment. Rental payments for buildings and structures should not include the land on which they stand, if this separation can be made in a reasonable way.

INCLUDE • Payments made to others for use of such depreciable assets as buildings, structures, machinery, and equipment

EXCLUDE • Separately identified fees for leasing of land on which buildings and structures are erected

• Capital leases (These should be reported as assets.)

8. Did this enterprise make royalty payments for the use of intangible property rights in 1982? 110 1 ☐ YES — Report amount here 2 ☐ NO

9. Did this enterprise purchase advertising services in 1982? 112 1 ☐ YES — Report amount here 2 ☐ NO

10. Did this enterprise make rental payments, excluding land, in 1982? 100 1 ☐ YES — Go to line 11 2 ☐ NO — SKIP to item E

11. Rental payments for use of buildings and structures

12. Rental payments for use of machinery and equipment

13. TOTAL rental payments — Sum of lines 11 and 12

Key	Mil.	Thou.	Col.
110			
111			
112			
113			
100			
101			
102			
103			

PENALTY FOR FAILURE TO REPORT

CONTINUE ON PAGE 2

Item E - VALUE OF INVENTORIES		End of 1982				End of 1981							
14. Did this enterprise have inventories at the end of the year specified?		120		1		2		130		1		2	
		YES		ND				YES		ND			
		If "No" for both years, SKIP to item F											
15. Report total inventories at cost or market using generally accepted accounting methods. (For inventories at LIFO cost use the sum of the LIFO amount plus the LIFO reserve when completing lines 15 through 16b) - Sum of lines 16a and b)		Key	Mil.	Thou.	Dol.	Key	Mil.	Thou.	Dol.				
		121				131							
16. a. Report the amount of total inventories on line 15 which is not subject to LIFO costing.		122				132							
b. Report the amount of total inventories on line 15 which is subject to LIFO costing - Sum of lines 17a and b		123				133							
17. a. Report the amount of LIFO reserve associated with the inventories on line 16b.		124				134							
b. Report the LIFO value of inventories on line 16b.		125				135							
Item F - CAPITAL EXPENDITURES DURING 1982 (EXCLUDING LAND AND MINERAL RIGHTS)						Key	Mil.	Thou.	Dol.				
18. New machinery and equipment						071							
a. New automobiles, trucks, trailers, special purpose vehicles, etc., for highway use						072							
b. New computers and peripheral data processing equipment						073							
c. All other expenditures for new machinery and equipment						074							
d. TOTAL new machinery and equipment - Sum of lines a through c						075							
19. New buildings, structures, and additions to plant						076							
20. Used plant and used equipment acquired from others						077							
21. Capitalized development and exploration of mineral properties						078							
22. TDOTAL capital expenditures - Sum of lines 18d through 21 - Enter total here and on line 27						079							
Item G - GROSS VALUE AND CHANGES IN GROSS VALUE OF DEPRECIABLE ASSETS DURING 1982													
Report the gross value of depreciable assets for which depreciation or amortization accounts are ordinarily maintained. Gross value represents the acquisition cost to your enterprise. Also report changes in the gross value of depreciable assets during 1982. If mergers and acquisitions are not treated as a "pooling of interest," enter the value of the acquired assets on line 28.													
INCLUDE													
• Depreciable assets (buildings, structures, machinery, equipment, etc.) and amortizable assets (special tools) for all domestic establishments and facilities													
• Value of depreciable assets owned by this enterprise, but rented or leased to others under an operating lease agreement													
• Value of all capitalized drilling and completion costs													
• Value of depreciable assets obtained through capital or tax leases													
• Assets sold, retired, scrapped, destroyed, etc., on line 29													
EXCLUDE													
• Value of land and depletable assets (timber and mineral rights) (Include on line 37)													
• Current assets (inventories, cash, accounts receivable, etc.) and intangible assets (goodwill, patents, copyrights, etc.) (Include on line 37)													
• Value of depreciable assets in foreign countries and U.S. possessions (Include on line 38)													
• Value of land and mineral rights; such as producing or nonproducing leases, bonus payments, royalties and overriding mineral interests, and fee land (Include on line 37)													
• Value of depreciable assets owned by your enterprise, but leased to others under a capital or tax lease agreement													
Item H - CHANGES IN ACCUMULATED DEPRECIATION DURING 1982													
INCLUDE													
• Total depreciation and amortization reserves for the assets included in item G													
• Additions made to depreciation reserves during 1982 for assets owned at the beginning of the year or acquired during the year													
EXCLUDE													
• Depletion reserves for intangible assets													
• Depreciation of assets held in foreign countries and U.S. possessions													
Item I - TOTAL ASSETS, END OF 1982													
Report the balance sheet assets on a consolidated basis.													
INCLUDE													
• Lines 36 and 37 - Only domestic (nonforeign) assets													
• Line 37 - Current and other assets for which depreciation or amortization reserves are NOT maintained, such as inventories, cash, investments, accounts receivable, etc. Also include depletable and intangible assets such as land, timber, mineral rights, goodwill, patents, copyrights, etc. Report all other assets on a net basis of all reserves and allowances.													
• Line 38 - All assets in foreign countries and U.S. possessions, regardless of type, reported on a net basis of all reserves, allowances, and accumulated depreciation													
• Line 39 - Total assets of your enterprise as reported on your balance sheet													
Item J - CAPITAL LEASES DURING 1982													
Report the value of all depreciable assets obtained through capital leases during 1982 at the market value when they were acquired. Do not include assets either obtained through operating leases or owned by this enterprise but leased to others under a capital lease agreement.													
140. Did this enterprise acquire new assets through capital leases during 1982?													
1													
2													
YES - Report the value of capital lease assets													
ND													
141													
REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.													
Item K - CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.													
Name of person to contact regarding this report - Print or type				Period covered by this report				FRDM Mo. Year				TD Mo. Year	
Telephone				Area code				Number				Extension	
Signature of authorized person				Date									

Item 7 – PRINCIPAL ACTIVITY OF THIS ESTABLISHMENT a. Does this establishment perform management, general administrative, or other supporting services PRIMARILY for establishments of your enterprise rather than for other business firms or for the general public? ("Enterprise" refers to the parent firm and all its establishments and subsidiaries under common ownership or control.)		040 1 <input type="checkbox"/> YES – Mark (X) the box which best describes the major activity of this establishment → 2 <input type="checkbox"/> NO – If "No" describe the primary activity of this establishment, then SKIP to item 9.		041 1 <input type="checkbox"/> Centralized administration 2 <input type="checkbox"/> Research, development, and testing 3 <input type="checkbox"/> Warehousing 4 <input type="checkbox"/> Electronic data processing 5 <input type="checkbox"/> Trading stamp redemption 6 <input type="checkbox"/> Selling 7 <input type="checkbox"/> Other – Specify _____	
b. Does this establishment perform these management and administrative functions or support services for ALL establishments of your enterprise?		042 1 <input type="checkbox"/> YES – Go to c 2 <input type="checkbox"/> NO – SKIP to item 7d			
c. Is this establishment the corporate headquarters, executive office or head office for your entire enterprise?		043 1 <input type="checkbox"/> YES – SKIP to item 8 2 <input type="checkbox"/> NO – SKIP to item 8			
d. Does this establishment perform these management and administrative functions or services for a SINGLE operating establishment which is located at the same physical location as shown in the address label?		044 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO			
Item 8 – PRINCIPAL BUSINESS OR ACTIVITY OF THE OPERATING ESTABLISHMENTS SERVED a. Mark (X) the ONE box which BEST describes the MAJOR kind of business or industrial activity of the operating establishments of your enterprise that are managed or serviced by the auxiliary referred to in the label.		045 1 <input type="checkbox"/> Minerals extraction, production, or exploration 2 <input type="checkbox"/> Construction (including general contracting, subcontracting, and land subdividing and developing) 3 <input type="checkbox"/> Manufacturing (including publishing and printing) 4 <input type="checkbox"/> Wholesale trade (including manufacturer's sales branches) 5 <input type="checkbox"/> Retail trade 6 <input type="checkbox"/> Service industries 7 <input type="checkbox"/> Other – Specify _____			
b. List in order of importance, the principal kinds of merchandise sold, products produced, types of services rendered, or construction activities performed by the operating establishments that are managed or serviced by the auxiliary listed in the address label. For each line, also indicate the percent of total sales or receipts that each line represents.		Source of sales or receipts		Percent of total sales or receipts	
(1)				%	
(2)				%	
(3)				%	
		CENSUS USE ONLY		046	
Item 9 – BILLINGS TO OTHER ESTABLISHMENTS OF YOUR ENTERPRISE IN 1982 Report billings to all other establishments of your enterprise during 1982 INCLUDE • All merchandise billed by this establishment in 1982 • All billings, whether or not the merchandise was shipped directly by the supplier or shipped from this establishment EXCLUDE • Sales to establishments of other enterprises, and franchise sales • Purchases made directly by your enterprise's individual establishments		Did this establishment have billings to other establishments of your enterprise during 1982? 050 1 <input type="checkbox"/> YES – Report amount billed → 2 <input type="checkbox"/> NO		Key Mil. Thou. Dol. 051	
Item 10 – SALES TO CUSTOMERS OUTSIDE YOUR ENTERPRISE IN 1982 Report all sales made by this establishment during 1982 to customers outside your enterprise. Exclude sales taxes and other taxes collected. INCLUDE • Merchandise sales, receipts for services, and other business receipts • Export transfers to foreign subsidiaries of your enterprise • Cost of research and development for the Federal Government or for other enterprises on contract • Franchise sales EXCLUDE • Intra-enterprise transfers to other domestic establishments of your enterprise • Sales to outside customers made by other establishments of your enterprise even though billed centrally by this establishment • Sales and/or manufacturers' shipments already reported on other Census forms NOTE – Line b, general public, includes households, final consumers, and individuals. Other sources include retailers; wholesalers; institutional, industrial, commercial, professional, and farm users (for use in farm production); and government.		a. Did this establishment have sales to customers outside your enterprise during 1982? 009 1 <input type="checkbox"/> YES – Report sales and receipts → 2 <input type="checkbox"/> NO – SKIP to item 11		Key Mil. Thou. Dol. 010	
b. Of the total sales reported in line a, report the approximate percent of receipts from –		Whole percents			
(1) General public		011 %			
(2) Other sources		012 %			
Item 11 – COST OF RESEARCH AND DEVELOPMENT IN 1982 Report all costs incurred at this establishment during 1982 to support research and development activities (i.e., wages and salaries, direct materials costs, services and supporting costs, and an appropriate share of depreciation and overhead). If this establishment performed research and development for the Federal Government or for other enterprises on contract during 1982, include the total amount charged for such work performed. Also, report such receipts in item 10.		a. Did this establishment perform research and development during 1982? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 12		Key Mil. Thou. Dol. 060	
b. Source of funds for research and development performed		Key Mil. Thou. Dol.			
(1) Federal Government contracts and subcontracts		061			
(2) Nonfederal sources outside your enterprise (other enterprises, local governments, etc.)		062			
(3) Other establishments of your enterprise		063			
(4) TOTAL cost of research and development – Sum of lines (1) through (3)		064			
Item 12 – CAPITAL EXPENDITURES DURING 1982 (EXCLUDING LAND AND MINERAL RIGHTS) Capital expenditures refer to all costs that are chargeable to the fixed asset account and for which depreciation or amortization reserves are maintained. Include all items obtained through a capital lease. INCLUDE • Line b(1)(a) – New vehicles purchased for highway use including passenger automobiles, trucks, commercial cars and buses, truck tractors and trailers, and special purpose vehicles • Line b(1)(c) – Other new machinery and equipment including office machines and fixtures, furniture, warehouse lifts, and similar equipment. Report replacements as well as additions to capacity. Include vehicles whose primary use is off highway. • Line b(2) – New construction, major alterations, capitalized repairs and improvement of buildings, other fixed structures, and site improvements (such as roads, parking lots, fences, utilities) • Expenditures for structures which, on completion, are to be sold or leased back to you • The cost of all improvements and new construction which were in progress, but had not been completed at the end of 1982 • Line b(3) – Total expenditures for old or existing plants and for second-hand equipment acquired from others. Include machinery or equipment transferred from other plants of your enterprise at approximate market value. EXCLUDE • Cost of land and mineral rights • Cost of maintenance and repairs charged at current operating expense • Capital expenditures made by outside owners of property rented or leased to this establishment • Capital expenditures made by this establishment for other locations of your enterprise		a. Did this establishment make capital expenditures during 1982? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 13		Key Mil. Thou. Dol. 070	
b. Type of capital expenditures		Key Mil. Thou. Dol.			
(1) New machinery and equipment		071			
(a) New automobiles, trucks, trailers, special purpose vehicles, etc., for highway use		071			
(b) New computers and peripheral data processing equipment		072			
(c) All other expenditures for new machinery and equipment		073			
(d) TOTAL new machinery and equipment – Sum of lines (a) through (c)		074			
(2) New buildings, structures, and additions to plant		075			
(3) Used plant and used equipment acquired from others		076			
(4) TOTAL capital expenditures – Sum of lines (1)(d), (2), and (3)		078			

1982 ECONOMIC CENSUSES
AUXILIARY ESTABLISHMENT REPORTPlease enter the 11-digit
CENSUS FILE NUMBER
as shown on this report
(See label on page 1)

Item 13 - GROSS VALUE OF DEPRECIABLE ASSETS DURING 1982 (EXCLUDE LAND) Report the gross value of depreciable assets of this establishment for which depreciation or amortization accounts are ordinarily maintained. Gross value represents the acquisition cost to this establishment of such depreciable assets. The value of assets should include all types of items for which capital expenditures are reported. (See instructions for item 12.) INCLUDE • Value of improvements and new construction that were in progress but not completed at the end of 1982 • Value of depreciable assets owned by this establishment, but rented or leased to others under an operating lease agreement • Value of depreciable assets obtained through capital leases EXCLUDE • Value of land and depletable assets (timber and mineral rights) • Current assets (inventories, cash, accounts receivable, etc.) and intangible assets (goodwill, patents, copyrights, etc.) • Value of depreciable assets at other locations for which this establishment maintains records		a. Did this establishment maintain depreciable assets at the end of 1982? 080 1 <input type="checkbox"/> YES - Go to b 2 <input type="checkbox"/> NO - SKIP to Item 15																																																											
		b. Gross value of depreciable assets																																																											
		<table border="1"> <thead> <tr> <th rowspan="2">Key</th> <th colspan="4">End of 1982</th> <th colspan="4">End of 1981</th> </tr> <tr> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> <th></th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td>(1) Buildings and structures</td> <td>081</td> <td></td> <td></td> <td></td> <td>084</td> <td></td> <td></td> </tr> <tr> <td>(2) Machinery and equipment</td> <td>082</td> <td></td> <td></td> <td></td> <td>085</td> <td></td> <td></td> </tr> <tr> <td>(3) TOTAL - Sum of lines (1) and (2)</td> <td>083</td> <td></td> <td></td> <td></td> <td>086</td> <td></td> <td></td> </tr> </tbody> </table>				Key	End of 1982				End of 1981				Mil.	Thou.	Dol.		Mil.	Thou.	Dol.	(1) Buildings and structures	081				084			(2) Machinery and equipment	082				085			(3) TOTAL - Sum of lines (1) and (2)	083				086																		
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(3) TOTAL - Sum of lines (1) and (2)	083				086																																																								
Item 14 - DEPRECIATION CHARGES DURING 1982 Report additions made to depreciation reserves during 1982 for assets owned at the beginning of the year or acquired during the year.		Did this establishment maintain depreciation accounts at the end of 1982? 090 1 <input type="checkbox"/> YES - Report TOTAL depreciation charged against assets during 1982 2 <input type="checkbox"/> NO		<table border="1"> <thead> <tr> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td>091</td> <td></td> <td></td> </tr> </tbody> </table>		Mil.	Thou.	Dol.	091																																																				
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Item 15 - RENTAL PAYMENTS IN 1982 (EXCLUDE LAND) INCLUDE • Payments (or equivalent charges) made to other enterprises for the use of such fixed assets as buildings, structures, machinery, and equipment. (See item 12 instructions for breakout of buildings and structures from machinery and equipment.) EXCLUDE • Payments made by this establishment to the parent enterprise or any of its subsidiaries. The value of such enterprise-owned assets should be reported as if actually owned by this establishment in item 13. • Capital leases (should be reported as assets) • Separately identified fees for leasing of land on which buildings and structures are erected • Rental payments made by this establishment for plant and equipment at other establishments of your enterprise		Did this establishment make rental payments during 1982? 100 1 <input type="checkbox"/> YES - Report rental payments for use of 2 <input type="checkbox"/> NO		<table border="1"> <tbody> <tr> <td>a. Buildings and structures</td> <td>101</td> <td></td> <td></td> </tr> <tr> <td>b. Machinery and equipment</td> <td>102</td> <td></td> <td></td> </tr> <tr> <td>c. TOTAL - Sum of lines a and b</td> <td>103</td> <td></td> <td></td> </tr> </tbody> </table>		a. Buildings and structures	101			b. Machinery and equipment	102			c. TOTAL - Sum of lines a and b	103																																														
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c. TOTAL - Sum of lines a and b	103																																																												
Item 16 - COST OF PURCHASED ELECTRICITY IN 1982 INCLUDE • The total amount actually paid or payable for electric energy purchased during the year from other enterprises, or received from other establishments of your enterprise. EXCLUDE • The value of electricity generated and used at this establishment • Cost of purchased electricity which is included as part of normal rental payments		Did this establishment purchase electricity during 1982? 110 1 <input type="checkbox"/> YES - Report cost of purchased electricity 2 <input type="checkbox"/> NO		<table border="1"> <tbody> <tr> <td>111</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		111																																																							
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Item 17 - COST OF PURCHASED FUEL IN 1982 INCLUDE • The total amount actually paid or payable during the year for all fuels consumed for heat, power, or the generation of electricity • Coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, etc. EXCLUDE • Cost of purchased fuel which is included as part of normal rental payments		Did this establishment purchase fuels in 1982? 112 1 <input type="checkbox"/> YES - Report cost of fuels consumed 2 <input type="checkbox"/> NO		<table border="1"> <tbody> <tr> <td>113</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		113																																																							
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Item 18 - COST OF PURCHASED COMMUNICATION SERVICES IN 1982 INCLUDE • Payments for telephone, telegraph, data transmission, telex, teletype, ticker tape, phototransmission, and all other related services EXCLUDE • Cost of purchased communication services which is included as part of rental payments		Did this establishment purchase communication services in 1982? 114 1 <input type="checkbox"/> YES - Report cost of purchased communication services 2 <input type="checkbox"/> NO		<table border="1"> <tbody> <tr> <td>115</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		115																																																							
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Item 19 - COST OF PURCHASED REPAIR SERVICES IN 1982 INCLUDE • The total amount paid to other establishments for purchased repair services (outside contractors, garages, etc.) • All noncapitalized repairs to buildings, structures, machinery, and equipment (such as repairs to motor vehicles, painting, roof repair, machinery and equipment repair, etc.) EXCLUDE • Repairs performed on leased buildings or equipment and paid for by normal lease payments • Capitalized improvements for which depreciation or amortization accounts are ordinarily maintained • The cost of all repairs (including all purchased materials) performed by the employees of this establishment		a. Did this establishment purchase repair services for buildings and structures in 1982? 116 1 <input type="checkbox"/> YES - Report cost of purchased repair services for buildings and structures 2 <input type="checkbox"/> NO		<table border="1"> <tbody> <tr> <td>117</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		117																																																							
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Item 20 - VALUE OF INVENTORIES The Census inventory inquiries are designed to collect information concerning all of the inventories owned by each enterprise and which are located within the United States. Inventories of multi-establishment enterprises should be reported by the establishment that is responsible for the inventories even if these inventories are held at a separate location. In this way, all inventories are accounted for on a nonduplicated basis. The sum of the inventories of all establishments of an enterprise should be approximately equal to the enterprise's total inventories after adjusting for valuation differences. For lines a through d(2) report only those inventories that are attributable to this establishment's operations. Report such inventories as if this establishment owns them. Do not include inventories located at this establishment which are the responsibility of other establishments of your enterprise. INCLUDE • Inventories in transit for which this auxiliary has responsibility • Finished products • Work in process • Materials, supplies, fuels, etc., which are for resale or for further fabrication EXCLUDE • Inventories owned by others but held by this auxiliary • Items not held for resale, such as fixtures, equipment, and supplies NOTE - Sum of lines c(1) and (2) should equal total inventories on line b and sum of lines d(1) and (2) should equal the amount on line c(2)		a. Did this establishment have inventories at the end of the year specified? 120 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO If "No" for both years, SKIP to Item 22, Certification.		<table border="1"> <thead> <tr> <th colspan="4">End of 1982</th> <th colspan="4">End of 1981</th> </tr> <tr> <th>Key</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> <th>Key</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td>b. Report inventories at cost or market using generally accepted accounting methods. (For inventories at LIFO cost, use the sum of the LIFO amount plus the LIFO reserve when completing lines b through c(2) - Should equal sum of lines c(1) and (2))</td> <td>121</td> <td></td> <td></td> <td>131</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. (1) Report the amount of total inventories on line b which is not subject to LIFO costing</td> <td>122</td> <td></td> <td></td> <td>132</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(2) Report the amount of total inventories on line b which is subject to LIFO costing - Should equal sum of lines d(1) and (2)</td> <td>123</td> <td></td> <td></td> <td>133</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d. (1) Report the amount of LIFO reserve associated with the inventories on line c(2)</td> <td>124</td> <td></td> <td></td> <td>134</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(2) Report the LIFO value of inventories on line c(2)</td> <td>125</td> <td></td> <td></td> <td>135</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		End of 1982				End of 1981				Key	Mil.	Thou.	Dol.	Key	Mil.	Thou.	Dol.	b. Report inventories at cost or market using generally accepted accounting methods. (For inventories at LIFO cost, use the sum of the LIFO amount plus the LIFO reserve when completing lines b through c(2) - Should equal sum of lines c(1) and (2))	121			131				c. (1) Report the amount of total inventories on line b which is not subject to LIFO costing	122			132				(2) Report the amount of total inventories on line b which is subject to LIFO costing - Should equal sum of lines d(1) and (2)	123			133				d. (1) Report the amount of LIFO reserve associated with the inventories on line c(2)	124			134				(2) Report the LIFO value of inventories on line c(2)	125			135			
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Item 21 - REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.																																																													
Item 22 - CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.																																																													
Name of person to contact regarding this report - Print or type				Period covered by this report		FROM: Mo. Year																																																							
						TO: Mo. Year																																																							
Telephone		Area code	Number	Extension		Signature of authorized person																																																							
						Date																																																							

Item 8 - ASSETS, CAPITAL EXPENDITURES AND RETIREMENTS	TOTAL - Sum of columns (2) through (5)				Buildings and other structures (excluding land)				Machinery and equipment				Mineral exploration and development				Mineral land and rights																																																					
	Key	Mil.	Thou.	Ool.	Key	Mil.	Thou.	Ool.	Key	Mil.	Thou.	Ool.	Key	Mil.	Thou.	Ool.	Key	Mil.	Thou.	Ool.																																																		
a. Gross value of depreciable and/or depletable assets (acquisition cost) at the beginning of the year.	341				339				340				270				271																																																					
b. TOTAL capital expenditures during the year	350				378				379				273				274																																																					
(1) Capital expenditures for new buildings and machinery					342				343																																																													
(2) Capital expenditures for used buildings and machinery					345				346																																																													
c. Retirements and disposition of depreciable and/or depletable assets (i.e., gross value of assets sold, retired, destroyed, abandoned, scrapped, etc.)	353				351				352				276				277																																																					
d. Gross value of depreciable and/or depletable assets at the end of the year (lines 8a + 8b minus 8c equals 8d)	356				354				355				279				280																																																					
Item 9 - DEPRECIATION AND/OR DEPLETION CHARGES FOR THE YEAR 1982	359				357				358				282				283																																																					
Item 10 - RENTAL PAYMENTS DURING YEAR FOR BUILDINGS AND MACHINERY	362				360				361																																																													
Item 11 - CURRENT ACCOUNT EXPENDITURES DURING THE YEAR FOR MINERAL PROPERTIES	287												285				286																																																					
Item 12 - COST OF PURCHASE OF COMMUNICATION SERVICES (TELEPHONE, TELEGRAPH, ETC.)																	Key	Mil.	Thou.	Ool.																																																		
																	392																																																					
Item 13 - LEASE RENTS FOR MINERAL PROPERTIES																																																																						
																	288																																																					
Item 14 - OPERATIONAL STATUS																																																																						
a. Mark (X) the ONE box which best describes this establishment at the end of 1982.																																																																						
001 <input type="checkbox"/> In operation (including operations under development, exploration, or construction)																																																																						
002 <input type="checkbox"/> Temporarily or seasonally inactive																																																																						
003 <input type="checkbox"/> Ceased operation																																																																						
004 <input type="checkbox"/> Sold or leased TO another company - Give date at right AND enter name, etc., below																																																																						
005 <input type="checkbox"/> Acquired or leased FROM another company - Give date at right AND enter name, etc., below																																																																						
																	GIVE DATE Enter figures only																																																					
																	Month	Day	Year																																																			
NAME OF NEW/FORMER OWNER OR OPERATOR																	EI Number (9 digits)																																																					
																	-																																																					
NUMBER AND STREET																	CITY																																																					
																	STATE																																																					
																	ZIP CODE																																																					
b. Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a zero "0"? <input type="checkbox"/> YES - Complete Item 15a through d <input type="checkbox"/> NO - SKIP to Item 16																																																																						
Item 15 - OWNERSHIP AND CONTROL																																																																						
Enter the company name and address (Number and street, city, State, ZIP code) and EI Number. If more space is needed to list companies, use remarks section.																																																																						
a. Is this company owned or controlled by another company? 097 <input type="checkbox"/> YES <input type="checkbox"/> NO																																																																						
NAME AND ADDRESS OF OWNING OR CONTROLLING COMPANY																	EI Number (9 digits)																																																					
																	-																																																					
b. Does this company own or control any other company or companies? 098 <input type="checkbox"/> YES <input type="checkbox"/> NO																																																																						
NAME AND ADDRESS OF OWNED OR CONTROLLED COMPANY																	EI Number (9 digits)																																																					
																	-																																																					
c. Did this company have any mineral establishment under exploration or development but not in production at the end of the year? 113 <input type="checkbox"/> YES <input type="checkbox"/> NO																																																																						
d. Did this company operate at more than one location during 1982? 079 <input type="checkbox"/> YES - List additional locations below <input type="checkbox"/> NO - SKIP to Item 16																																																																						
If more space is needed, attach separate sheet.																																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Physical address of business location (Number and street, city, State, ZIP code)</th> <th rowspan="2">Employer Identification Number</th> <th rowspan="2">Kind of business at this location</th> <th colspan="3">Sales and receipts</th> <th colspan="3">Annual payroll</th> <th rowspan="2">Number of employees during pay period including March 12</th> <th rowspan="2">Are these figures included on the front of this report?</th> </tr> <tr> <th>Mil.</th> <th>Thou.</th> <th>Ool.</th> <th>Mil.</th> <th>Thou.</th> <th>Ool.</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>(2)</td> <td>(3)</td> <td>(4)</td> <td>(5)</td> <td>(6)</td> <td>(7)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(9 digits)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td></td> <td>(9 digits)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> </tbody> </table>																					Physical address of business location (Number and street, city, State, ZIP code)	Employer Identification Number	Kind of business at this location	Sales and receipts			Annual payroll			Number of employees during pay period including March 12	Are these figures included on the front of this report?	Mil.	Thou.	Ool.	Mil.	Thou.	Ool.	(1)	(2)	(3)	(4)	(5)	(6)	(7)						(9 digits)									<input type="checkbox"/> YES <input type="checkbox"/> NO		(9 digits)									<input type="checkbox"/> YES <input type="checkbox"/> NO
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Item 16 - CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT																																																																						
The Bureau of the Census reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report.																																																																						
<div style="display: flex; justify-content: space-between;"> <div> <p>Review the report carefully to see that no items are omitted for the year being covered.</p> <p>Calculate and enter figures for the four "reasonableness" checks below, and review the results.</p> <p>Correct your report for any errors you find and explain unusual figures in remarks.</p> </div> <div> <p>For most establishments, the figures computed usually fall within the ranges indicated.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>"Reasonableness" checks</th> <th>Calculation required for each check</th> <th>Figures for survey year</th> <th>Usual range</th> </tr> </thead> <tbody> <tr> <td>a. Average hourly wages per production worker</td> <td>Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)</td> <td>\$/hr.</td> <td>\$3-\$15</td> </tr> <tr> <td>b. Hours worked per year per production worker</td> <td>Item 4e (Total hours worked) ÷ item 2c (Average number of production workers)</td> <td>Hrs./yr.</td> <td>1000-3000</td> </tr> <tr> <td>c. Salaries and wages per dollar of shipments</td> <td>Item 3Ac (Total payroll) ÷ item 18B (Total value of shipments)</td> <td>¢</td> <td>05¢-95¢</td> </tr> <tr> <td>d. Supplies cost per dollar of shipments</td> <td>Item 5f (Total supplies cost) ÷ item 18B (Total value of shipments)</td> <td>¢</td> <td>05¢-95¢</td> </tr> </tbody> </table> </div> </div>																					"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range	a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)	\$/hr.	\$3-\$15	b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ item 2c (Average number of production workers)	Hrs./yr.	1000-3000	c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 18B (Total value of shipments)	¢	05¢-95¢	d. Supplies cost per dollar of shipments	Item 5f (Total supplies cost) ÷ item 18B (Total value of shipments)	¢	05¢-95¢																														
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e. Is the total of value of shipments (item 18B) plus total of capital expenditures, except land (item 8b, columns (2), (3), and (4), greater than the sum of payroll (item 3Ac) plus total cost of supplies, etc., (item 5f)? <input type="checkbox"/> YES <input type="checkbox"/> NO - Explain in remarks																																																																						
REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.																																																																						

CONTINUE ON PAGE 3 →

FORM MC-1201 1982 CENSUS OF MINERAL INDUSTRIES COAL - Continued		U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS		PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER Name of establishment (Same as address box)	
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Item 17A - WATER USE DURING 1982

1. What was the total quantity of water intake for this establishment for use in mining, mineral treatment, or preparation and auxiliary operations (such as boiler feed, and sanitary services) during the calendar year 1982?

2. Did you recirculate any water during the calendar year 1982?

Mark (X) one box only

1 ☐ Under 1 million gallons
 2 ☐ 1-9 million gallons
 3 ☐ 10-19 million gallons
 4 ☐ 20-49 million gallons
 5 ☐ 50-99 million gallons
 6 ☐ 100 million gallons or over

1 ☐ YES 2 ☐ NO

Item 17B - COAL FOR PREPARATION, PURCHASED MACHINERY INSTALLED, AND SUPPLIES USED DURING 1982

Part I - ITEMS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS AND USED

Instructions - Please read

Report delivered cost of the individual items below which were used or prepared during 1982. (For valuation, see Instructions for Item 5 in the Instruction Sheets.) Include cost of items listed below whether charged to current or capital accounts. Exclude associated labor costs reported in Items 3A, 3B, and 5e.

Report quantities in the unit of measure specified in column (B-2).

Report quantity and estimated cost of coal received for preparation on a custom or toll basis as if purchased.

Coal mined and also prepared at this establishment should be reported in part II only.

Include the cost of items for which less than \$25,000 worth was used in "All other supplies," line 20.

If the information as requested cannot be taken directly from your book records, reasonable estimates are acceptable.

Line number	Coal received and processed, machinery installed, and supplies used (A)	Census material code S71 (B-1)	Unit of measure for quantities (B-2)	Received from other establishments of this company, purchased from others, and coal received for custom preparation			
				If \$25,000 or more of the listed item was used -			If you consumed some but less than \$25,000 of the item, enter (X) S75 (E)
				Quantity S73 (C)	Cost, including delivery cost (freight-in) (D)		
					S74 Millions	S75 Thousands		S76 Dollars
1	COAL RECEIVED FOR PREPARATION Raw coal mechanically cleaned by wet-washing or pneumatic methods (Include cleaned product in Item 18B, line 3.)	121191 1	Short tons				
2	Raw coal prepared by other methods, such as mechanical crushing, screening, or sizing (Exclude coal reported on line 1. Include prepared product in Item 18B, line 4.)	121193 7	Short tons				
3	PURCHASED MACHINERY INSTALLED , including mobile loading and transportation equipment	353020 1					
4	PARTS AND ATTACHMENTS (except those listed elsewhere) for construction, mining, and conveying equipment; and for mineral preparation machinery and equipment	353030 0					
5	SUPPLIES USED Filter and brattice cloth	221100 1					
6	Round or hewn wood products and stumpage (such as logs, bolts, hewn cross ties, hewn or round mine timbers and ties)	241100 7					
7	Explosive materials, except ammonium nitrate	289211 5	Pounds				
8	Ammonium nitrate	289212 3	Pounds				
9	Blasting accessories	289214 9					
10	Lubricating oils and greases, including hydraulic oils	290000 9					
11	Tires and inner tubes	301100 4					
12	Rubber and plastic products (hose, conveyor belting, etc.), except tires, tubes, and gaskets	306000 1					
13	Concrete products	327010 5					
14	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.)	329510 2					
15	Steel mill shapes and forms (such as plates, sheets, strip, piling, drill steel bars, other bars, rails, wheels, track accessories, pipe, tubing, wire, and structural shapes)	331201 4					
16	Nonferrous metal wire, including trolley wire	335700 1					
17	Roof bolts	345210 9					
18	Wire rope, cable, springs, and other fabricated wire products, excluding wire	349010 9					
19	Drill bits and reamers	353310 6					
20	All other supplies used - List the three principal types of supplies	970099 2					
21	TOTAL Sum of lines 1-20 should be the same as item 5a						

Part II - QUANTITY OF RAW COAL MINED AND PREPARED AT THIS ESTABLISHMENT

Instructions - Please read

Report below the quantities of raw coal mined and also prepared at this establishment. Purchases or receipts of coal not mined at this establishment should be reported only in part I.

Quantities of raw coal mined for sale as such and not for preparation at this establishment should be reported only in item 18.

Line number	Coal processed (A)	Census material code S71 (B)	Quantities of raw coal mined and also prepared at this establishment (Short tons) (C)
			S72
1	Raw coal mechanically cleaned by wet-washing or pneumatic methods (Include cleaned product in Item 18B, line 3.)	121191 1	
2	Raw coal prepared by other methods, such as mechanical crushing, screening, or sizing (Exclude coal reported on line 1. Include prepared product in Item 18B, line 4.)	121193 7	

CONTINUE ON PAGE 4 →

Item 17C – FUELS USED DURING 1982 AND STOCKS ON HAND AT END OF YEAR

Line number	Kind of fuel (Report total delivered cost, not cost per unit. Fuels received from other establishments of your company should be included at estimated market value.)	Census code 561 (B-1)	Unit of measure for quantities (B-2)	1982 CONSUMPTION			1982 Fuel Stocks End of year quantity (See instructions) 565 (E)
				Quantity 563 (C)	Cost, including delivery cost (freight-in) (D)		
					564 Millions	Thou- sands		Dollars
1	Coal – bituminous, lignite, and anthracite	121005 3	Short tons		\$		
2	Fuel oil Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	291141 0	Barrels (42 gal.)				
3	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	291151 9	Barrels (42 gal.)				
4	Gas – natural, manufactured, and mixed	131157 0	Thousand cu. ft.				
5	Gasoline	291111 3	Thousand gallons				
6	Other fuels – liquefied petroleum gas, coke, wood, and other	960018 0					
7	TOTAL Sum of lines 1–6 should be same as item 5c.				\$		
8	COAL FROM THIS MINE OR PLANT used at this establishment for power or heat	121195 2	Short tons	562			

Item 18A – TYPE OF OPERATION DURING 1982 – (Include production, development, and exploration operations.)**Part I – MINING AND PREPARATION METHODS**

Line No.	Item	Key	Mark (X) appropriate boxes
1	MINING METHODS – Mark (X) one or more (If mine is under development or exploration, or maintenance is being performed, indicate the method most likely to be used when production is started or resumed.)		
	Strip-pit	401	6205 <input type="checkbox"/>
2	Underground	402	6304 <input type="checkbox"/>
3	Other mining methods, including auger, culm bank, and dredge	403	6395 <input type="checkbox"/>
4	No mine or abandoned mine	404	6106 <input type="checkbox"/>
5	PREPARATION METHODS – Mark (X) one or both		
	Mechanical cleaning (wet-washing or pneumatic)	405	6858 <input type="checkbox"/>
6	Other preparation methods (such as mechanical crushing, screening, and sizing)	406	6999 <input type="checkbox"/>
7	No preparation except hand-picking or hand-screening	407	6601 <input type="checkbox"/>
Part II – CONTRACT MINING			Mark (X) one
Was any coal mined at the operation by contractors hired by you? (DO NOT INCLUDE AS CONTRACTORS, suppliers who mine coal property owned or leased by them on which they pay royalties.)			<input type="checkbox"/> YES <input type="checkbox"/> NO

Item 18B – PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1982**Instructions – Please read**

DO NOT COMBINE LINES – Report separately each product listed. Include all products of this establishment during 1982. Include products shipped on consignment, whether or not sold at the end of 1982. Include products transferred to other establishments of your company (such as to cleaning plants at other locations, coke ovens at this or other locations, manufacturing establishments, or separate sales branches).

Report all coal in short tons of 2,000 pounds. Report the net total values f.o.b. this establishment. Include in the selling value royalty, if any, but exclude freight or trucking charges to the purchaser or user.

Line 1 – Report the total tonnage of raw coal before allowance for refuse and waste that was sold or transferred for preparation at another mineral establishment (preparation plant associated with a mine or separately operated).

Line 2 – Report all other shipments of raw coal before allowance for refuse and waste. Include raw coal sold or transferred for use without preparation and also for preparation by the user, such as at a coke oven, cement plant, or electric utility.

Lines 3 and 4 – Include quantity and estimated value of coal prepared on a custom basis for others.

Report coal produced and used at this establishment for power or heat in item 17C, line 8. Report net coal production by type of mining item 18C.

The Department of Energy collects detailed figures on coal. This item and item 18C provide summary figures which will serve to relate the statistics compiled from the Census of Mineral Industries to the statistics compiled from Department of Energy Surveys. For comparable items the same data should be reported both to the Department of Energy and the Bureau of the Census.

Line number	Products and services (A)	Census product code 581 (B-1)	Shipments and interplant transfers			
			Quantity (SHORT TONS) 583 (D)	Value, f.o.b. this establishment (E)		
				584 Millions	Thou- sands	Dollars
1	RAW COAL (Report only coal mined at this establishment; include hand- picked and hand- screened coal.)					
	Shipments to coal preparation plants (If coal was sold on a clean-coal basis, report total tonnage prior to allowance for refuse and waste. Enter name and location of plant(s) at which coal was prepared in Remarks on page 5.)	12111 03 5		\$		
2	All other shipments	12111 01 9				
3	PREPARED COAL (Report all coal prepared at this establishment; include coal prepared on a custom basis for others.)					
	Mechanically cleaned by wet-washing or pneumatic methods	12112 01 7				
4	Other preparation only, such as mechanical crushing, screening, or sizing	12112 03 3				

CONTINUE WITH ITEM 18B ON PAGE 5

FORM MC-1201		U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS		PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER			
1982 CENSUS OF MINERAL INDUSTRIES COAL - Continued				Name of establishment (Same as address box)			

Item 18B - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1982 - Continued							
Line number	Products and services (A)		Census product code (B-1)	Shipments and interplant transfers			
				Quantity (SHORT TONS) (D)	Value, f.o.b. this establishment (E)		
					\$984 Millions	Thou- sands	Dollars
5	ALL OTHER PRODUCTS OF THIS ESTABLISHMENT <i>Clay - Specify kind and unit of measure</i>		14590 01 2		\$		
6	<i>Describe and report separately the quantity and value of each product with a value of \$50,000 or more which cannot be assigned to lines 1-5 above. For all remaining products, write "Other" and report a single total value.</i>		18				
7			26				
8			34				
9	Receipts for work or services performed for other establishments, such as hauling, stripping, shaft sinking, pumping, and shop work <i>(Exclude amounts received for custom preparation of coal.)</i>		12130 90 2				
10	RESALES	Sales of coal purchased and sold without further processing. <i>The cost of such products should be reported in Item 5b.</i>	99989 05 5				
11	TOTAL value of shipments and receipts Sum of lines 1-10, Column (E)		77000 00 8	\$			

Item 18C - NET PRODUCTION OF COAL FROM THIS ESTABLISHMENT DURING 1982 BY TYPE OF MINING							
Instructions - Please read							
Report net marketable coal produced from this mine during 1982 in short tons of 2,000 pounds, excluding washery or other refuse.				Include coal mined for you by contractor at strip pits, auger mines, culm banks, or underground mines.			
Exclude coal purchased for preparation or resale.				Report contract cost in item 5c.			
Census code (A)	Total coal mined, all types (Short tons) (B)	Coal mined, by type of mining (Short tons)					
		Strip-pit		Underground		Auger, culm bank, or dredge	
		Mined by your own employees (C)	Mined by outside contractor (D)	Mined by your own employees (E)	Mined by outside contractor (F)	Mined by your own employees (G)	Mined by outside contractor (H)
\$991	\$992	\$993	\$994	\$995	\$996	\$997	\$998
8805							

Item 19 - HOURS WORKED BY PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKERS, BY DEPARTMENT, DURING 1982				
Line number	Description (A)	Hours worked (B)		
		\$991 Millions	\$918 Thou- sands	Hours
1	AT MINE - MINING, EXPLORATION, AND DEVELOPMENT			
2	Underground	\$92		
3	Strip-pit, auger, culm bank, and dredge	\$93		
4	Surface, including mine shops and yards	\$94		
5	At preparation plant, including auxiliary works for this plant	\$95		
6	TOTAL Sum of lines 1-4 should be same as item 4e.	\$96		
7	Hours worked, included in lines 1-4 which were spent on exploration and development	\$97		

Items 20 and 21 - Not applicable to this report.

REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.

Item 22 - CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.									
Name of person to contact regarding this report <i>Print or type</i>			Telephone			FROM Mo. Day Year TO Mo. Day Year Period covered by this report →			
			Area code	Number	Extension				
Address - Number and street						Signature of authorized person			
City		State		ZIP code		Title		Date	

1982 CENSUS OF MINERAL INDUSTRIES

INSTRUCTIONS FOR REPORTING COAL MINING

FORM MC-1201

• In all correspondence with the Bureau of the Census, please include the 11-digit Census File Number which appears in the address box of the report form. Address all correspondence to:

Bureau of the Census
1201 East Tenth Street
Jeffersonville, Indiana 47134

• As you complete the report for each establishment, please enter the 11-digit Census File Number at the top of the odd-numbered pages as requested.

• Please read these instructions and those appearing on the report form for each item before entering your figures.

► A. WHO SHOULD REPORT?

The Census of Mineral Industries reports are required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Every concern is required to submit a separate Census report for each of its mineral establishments in the United States, including mines under development and preparation plants or tipples under construction. Enterprises with more than one establishment must submit a separate report for each establishment operated during all or any part of 1982. Reports should be returned to the Jeffersonville, Indiana, office as shown on the enclosed envelope.

Each report should be submitted by the operator of the establishment, whether he/she is the owner or is operating it under lease or contract.

Based on Bureau of the Census records, a report form is provided for each establishment which your company operated in 1982. If you have not received sufficient forms to cover all the mineral establishments operated by your company, write to the above address for needed forms. Be sure to describe the type of activity carried on at the establishments for which you request additional forms.

1. What is a mineral establishment?

For purposes of the census, a mineral establishment is defined as a single physical location where mineral operations are conducted; for example, a mine only (a mine may be an underground, strip-pit, auger, culm-bank, or dredge operation), a mine and preparation plant, or a preparation plant only. Since the information reported will be summarized to totals for each industry, state, and county, separate reports are required for different physical locations even though the establishments may be engaged in the same type of mining.

Thus, a mineral establishment includes a working or group of workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or preparation process. Individual shafts, openings, or sites should not necessarily be considered as individual mines; strip-pit or auger mines and culm-banks, however, should be reported separately from underground mines wherever possible. Plants engaged solely in preparing coal mined at other locations should be reported separately.

Separate reports are required for lease and land acquisitions of mineral rights if they are located in a different county from any establishments operated. (These reports should include a designation of the kind of mineral expected to be produced.) Such acquisitions may be included with the report for the nearest operating establishment producing the same kind of mineral if the establishment is located in the same county as the acquisition.

In completing your reports, a limited amount of prorating or estimating is acceptable when book records are not readily available.

2. How to report for establishments with no production during 1982.

If any of your company's mining establishments had no production at all during 1982, you should nevertheless return the report for each such establishment with all other information completed and with "0" entered in item 188. If a mining location was not in production, but had custodial employees, maintained inventories, or made shipments during the year, the information should be reported in the appropriate sections of the report form. The census includes sites under exploration, mines under development or maintenance only, and plants under construction.

► B. WHAT ACTIVITIES SHOULD BE REPORTED?

Each report should cover the operations of a mine—underground, strip-pit, auger, culm-bank, or dredge—together with its associated tipple, shops, auxiliary units, yards, cleaning plant, breaker, washery, or other preparation plant, and offices; or it should cover a preparation plant not at the site of the mines served, or operated under separate management from the mines, together with its associated shops, yards, auxiliary units, and offices. The report should also include such activities as generating energy for the mine or plant (a central power plant serving two or more mineral establishments should be included in the report for that establishment to which the power plant furnishes the greatest quantity of electric energy); maintenance of mine, plant, and equipment; and receiving, shipping, storage, research, record keeping, health, safety, cafeteria, and other services, when carried on at the

same physical location by the mineral establishment. The report should exclude the operation of company stores, boarding houses, bunk houses, and recreational facilities. The report should also exclude sales branches, research laboratories, and general administrative offices, if they were operated as separate establishments. Such operations should be reported, where applicable, on separate Census of Business, Census of Manufactures, or central office or auxiliary forms available for such establishments.

The report should not include the production of coal chemicals, coke, fuel briquets, or packaged fuel. Such operations should be reported on Census of Manufactures forms.

► C. WHAT PERIOD SHOULD EACH REPORT COVER?

Each report should cover the calendar year 1982. However, a report is required even if the establishment was operated only part of the year. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will involve considerable additional costs, and your fiscal year covers at least 10 months of calendar year 1982 (i.e., ends between October 31, 1982, and February 28, 1983), you may report on a fiscal basis. However, all employment, payroll, and hours worked figures should relate to the calendar year rather than the fiscal year. (These calendar year payroll records should be available from your tax records.)

In the certification, the dates should show the exact period which the report covers. Thus, if an establishment began to operate or ceased to operate within the year, the dates should span only that part of the year during which the mine or preparation plant was in operation. If the operator changed during the year, complete the report only for that part of 1982 in which your company operated the establishment. Report in item 14 the appropriate information on changes in operator or operations.

► D. HOW SHOULD MULTIPLE ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES OF PRODUCTS AND MATERIALS FROM ONE ESTABLISHMENT TO ANOTHER ("INTERPLANT TRANSFERS")?

One of the important statistical measures of mining activity is "value added by mining," which is derived by the Bureau of the Census from the figures reported for value of shipments; capital expenditures; and cost of supplies, coal received for preparation, purchased fuels and electric energy, contract work, and purchased machinery installed during the year.

In order for statistics on value added and other subjects to be comparable from industry to industry or area to area, it is necessary that the operations of each establishment of a multiple establishment organization be reported as though the establishment were a separate "economic" unit. This means that the value of interplant transfers within a company should include, in addition to direct costs of production, a reasonable proportion of "all other costs (company overhead) and profits." The establishments receiving such transfers should report them as purchased coal for preparation, supplies, fuels, or electric energy at the same value plus costs of freight and other direct handling charges. (See item 5.)

SPECIFIC ITEMS

► Item 1A — EMPLOYER IDENTIFICATION NUMBER — Be certain to enter in item 1A, the current Employer Identification Number if it is different from the one printed in the address label. This information is needed so that the Census Bureau can avoid sending duplicate report forms for the same location. Our file of new business formations is based on the new employer identification numbers issued each year. However, we exclude mailing report forms to new employer identification numbers if we identify them as belonging to existing respondents.

► Item 18 — PHYSICAL LOCATION OF MINERAL ESTABLISHMENT — Accurate and precise information on the physical location of each establishment is needed in order to prepare the tabulations of mining activity in each state and county. Each establishment has tentatively been coded geographically based on the address in the mailing label. Please be sure to complete item 18, parts a through d, if this is not the correct physical location address of the establishment. Always complete item 18, part d.

(Definitions of employees and payrolls used to calculate withholding taxes generally may be followed in completing items 2 and 3, Employment and Payrolls.)

CONTINUE ON PAGE 2 —>

► **Item 2 — EMPLOYMENT IN 1982** — Report employees at the establishment who worked or received pay for any part of the pay period including the 12th of the specified month. Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of Armed Forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor, or partners. Include persons at a general office serving two or more mines if it is located at or near this establishment. Include employees of miners paid on a per ton, car, or yard basis. However, exclude employees who worked at the mine but were on the payroll of another employer (such as employees of contractors). Exclude workers at coke ovens, fuel briquet and other manufacturing plants, company stores, boarding houses, bunk houses, and recreational centers.

If manufacturing, distribution, or construction activities are also carried on at this location, employees such as medical staff, yardmasters, etc., who work in units that serve one or more such operations as well as the mineral establishment, should be distributed among the respective establishments. The earnings and hours worked of these employees should be likewise distributed.

Item 2a — Production, Development, and Exploration Workers — Include workers (up through the working supervisor level) engaged in manual work, using tools, operating machines, hauling materials, loading and hauling products; caring for mineral properties; exploration work, development, storage, shipping, maintenance, repair, guard services, auxiliary production for own use (e.g., power plant), record keeping, and other services closely associated with these production and development operations. Exclude supervisory employees above working supervisor level. For reports from operators, exclude employees of contractors.

Item 2c — Divide the total on line b by 4 and enter the result on line c; divide by 4 even if the establishment did not operate in all four periods.

Item 2d — All Other Employees — Include nonproduction personnel at this establishment engaged in supervision above the working supervisor level, sales, highway trucking and other transportation, advertising, credit, collection, clerical and routine office functions, executive, purchasing, finance; and in legal, personnel (including cafeteria, medical, etc.), professional (engineers, geologists, etc.), and technical work. Include force-account construction employees on your payroll engaged in construction of major additions or alterations to your facilities who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production, development, and exploration workers. For reports from operators, exclude employees of contractors.

► **Item 3A — PAYROLLS** — Report the gross earnings, paid in calendar year 1982, to employees of the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind, such as board and housing and payments in the form of shared profits and special stock purchases which are subject to withholding tax. Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exclude payments to proprietor or partners. Exclude payments to members of Armed Forces, and pensioners carried on your active payroll. Exclude royalty payments to unions.

Exclude here, but include in item 5a, the cost of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

► **Item 3B — EMPLOYER COST FOR FRINGE BENEFITS** (Supplemental Labor Costs Not Included in Payrolls)

Item 3Ba — Legally Required Expenditures Including Social Security Contributions — Report employer contributions for all programs required under federal and state legislation such as: Federal Old Age and Survivors' Insurance; unemployment compensation; worker's compensation. Also include legally required state temporary disability payments.

Item 3Bb — Payments for Voluntary Programs — Include union negotiated contracts. For programs supported by joint employer-employee contributions, include only the employer payments. Include employer payments of: (a) insurance premiums on hospital and medical plans, (b) life insurance premiums, and (c) premiums on supplementary accident and sickness insurance. In reporting payments for insurance report net payments, i.e., gross payments less any offsetting dividends, refunds, or other reductions in premiums.

Also include payments or allocations on: (a) all pension plans regardless of method of administration, (b) supplemental unemployment compensation plans, (c) welfare plans such as the UMWA welfare payments, (d) stock purchase plans in which the employer payment is not subject to withholding tax, and (e) deferred profit sharing plans.

The items listed in the paragraph above are generally considered as deferred rather than current income to employees and are not subject to withholding of income tax. If the payments or allocations by the company are made to a fund, payments to employees out of these funds should not be reported. However, payments made directly to retired employees or their survivors that do not pass through a fund should be included in item 3Bb.

Exclude expenditures not of the type listed above such as losses on company operated cafeterias and snack bars, cost of in-plant medical services, cost of free parking lots, discounts on employee purchases, cost of uniforms and other work clothing supplied to employees, and similar expenditures.

Exclude payments which should be reported as wages and salaries in item 3A, Payrolls, such as payments for holidays, vacations, sick pay, bonuses, unused vacation, jury pay, night shift bonus, suggestion awards, and payments in the form of shared profits and special stock purchases which are subject to withholding tax.

If any of the items are maintained in your records only at the company level, allocate to the mining establishments. In such cases, you may distribute the total on the basis of the ratio of the payroll of each mining establishment to the total company payroll unless you have developed your own method of making such allocations. Specify in "Remarks" the method used and the approximate portion that has been allocated.

► **Item 4 — HOURS WORKED BY PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKERS, BY QUARTER** — Include all hours worked or paid for, except hours for paid vacations, holidays, or sick leave, when the employee was not at the establishment. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

The figures should account for all hours worked at this establishment for the entire year by all full-time and part-time production, development, and exploration workers reported in item 2. Exclude hours worked by employees of contractors or by proprietors or partners.

An hour worked is the work of one person for one hour. Report figures from actual records of hours worked wherever available. If no records of hours worked were kept, estimate hours worked from payroll or other records.

► **Item 5 — COST OF SUPPLIES, ETC.** — The entries in this item are used by the Census Bureau to calculate the 1982 value added by mining. The figures reported should represent the total purchase cost of supplies, coal received for preparation, machinery installed, fuels, etc., actually used or processed during 1982, whether purchased or withdrawn from inventories. Include items charged to both the current and capital accounts.

Include items consumed by the establishment during the year although purchased prior to 1982; coal received from other mines for preparation (also report separately in item 17B), purchased supplies consumed for production, development, exploration, maintenance, and repair of mine, plant, and equipment, and in plant construction; supplies which you furnished without charge to contractors or sold to employees for use at this establishment; consumption of items received from other establishments of your company for which separate reports are being submitted.

Exclude items received during the year which were not consumed; services such as advertising, telephone, telegraph, cable, insurance, development, and research rendered by other establishments to this establishment, or services of engineering, management, marketing, legal, and other professional consultants, etc.; expenses such as depreciation and depletion charges against plant and equipment, rent and rental allowances, interest payments, royalties, and use of patent fees; supplies (such as timber or lumber), parts, or machinery produced at this establishment; extraordinary losses such as by fire and flood; and labor costs of your employees. (Report these labor costs in items 3A and 3B.)

If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differ significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.

Cost is delivered cost — i.e., the amount paid or payable after discounts and including freight and other direct charges incurred by the establishment in acquiring the materials.

Include all materials received for consumption; i.e., purchases from other companies, transfers from other establishments of your own company, withdrawals from inventories.

If coal was mined in this establishment in 1982 and also prepared at this establishment, the value of such raw coal should not be included in the cost figures reported.

For supplies, coal for preparation, machinery installed, fuels, and electric energy received from other establishments of your company, cost should be checked against the values reported for the establishment producing and transferring the supply (see instruction D on page 1). Freight and other direct handling charges should be added.

Item 5a — Cost of Supplies Used, Minerals Received for Preparation, and Purchased Machinery Installed — The following list of examples of supplies will indicate the types of items which should be included. The list is shown only as an example. It should not be considered a complete list of the items which should be included.

Bearings	Hardware
Bolts, screws, and nuts	Headlights and lamps
Brake blocks and linings	Industrial diamonds
Belting and screen cloth	Jacks
Carbon and graphite brushes	Lubricating oils
Cement	Lumber and timber purchased
Chemical reagents	Picks
Coal spraying oils	Pipe and fittings
Dies, jigs, and fixtures	Piling
Drill bits and accessories	Plates and sheets
Explosives	Reel and accessories
First aid and safety supplies	Rods and bars
Floor gratings	Roof bolts
Forgings and castings	Stationery, stamps, and office supplies
Fuses	Track accessories
Grinding balls and rods	Water purchased
Gears and pinions	Welding rods, electrodes and acetylene
Hammers	Wire, cable, and chain
Hand tools	

Include also all new and used machinery, equipment, and parts installed whether purchased or received from other establishments of your company. Include only physical goods used or put into production. Exclude services used or overhead charges. Report the cost of services performed for you by others in item 5e.

1982 CENSUS OF MINERAL INDUSTRIES

INSTRUCTIONS FOR REPORTING COAL MINING — Continued
FORM MC-1201

Item 5b — Cost of Products Bought and Sold Without Further Processing — Report the cost of all coal bought and sold in the same condition as when purchased. (Report total quantity and resale value of such coal in item 188, line 10.)

Item 5c — Purchased Fuels Consumed — Report the total amount actually paid or payable for all purchased fuels consumed during 1982 for heat, power, transportation, or the generation of electricity.

Include anthracite, bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, wood, and all other fuels, including purchased steam. Coal consumed for fuel at this establishment, but produced in another establishment of your company, should be reported as fuel in item 5c and 17c, line 1, with a commercial value assigned to it. Coal produced and used at this establishment for heat, power, or the generation of electricity should not be included here but its quantity should be reported in item 17c, line 8.

Item 5d — Purchased Electricity — Report the total amount actually paid or payable for electric energy purchased during 1982 from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment, but report its quantity in item 6b.

Item 5e — Cost of Contract Work Done for You by Others — Report the total payments made for contract services performed during 1982 including payments for supplies and equipment furnished by the contractor incidental to this work. Include services performed in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction.

Exclude payments to miners on your payroll paid on a per ton, car, yard, or footage basis. Include the compensation of such workers in item 3A.

If part of the payment to a contractor was in material produced, include an estimate of the value of the service.

Include payments to contractors who stripped, underground mined, or auger-mined coal or loaded culm-bank material for your account.

Exclude payments to suppliers who mined for their own account on property owned or leased by them and who paid royalties either directly or indirectly on the coal mined. Report such payments to suppliers in item 5b, if the coal was bought for resale without further processing or in items 5a and 178, part 1, if the coal was purchased for preparation at this establishment.

► **Item 6 — QUANTITY OF ELECTRICITY** — Report all quantities of electricity in thousands of kilowatt hours.

Item 6a — Purchased Electricity — Report the quantity of electricity for which cost is reported in item 5d.

Item 6b — Generated Electricity — Report the total quantity of electric energy generated at this establishment (gross less generating station use) during 1982. When a figure is reported on this line, data relating to the activity of the power stations should also be included in other sections of this report. For example, the number of employees assigned to the power station, and their wages and hours worked, should be included in the figures reported in items 2, 3, and 4; and the cost of purchased fuels used to generate electricity, in items 5c and 17c.

► **Item 7 — INVENTORIES OF THIS ESTABLISHMENT** — Through the inventory inquiries on the various forms to be completed by each company, the economic census seeks to obtain information concerning all of the inventories owned by each company that are located within the United States. The data on each report form should exclude inventories owned by others, but held by your company.

In reporting inventories of individual establishments, multiestablishment companies should assign to each establishment those inventories that the establishment is responsible for as if it owned them. For example, in completing the report of a minerals establishment, report those inventories that are attributable to its operations, even if the inventories are held elsewhere, e.g., at a warehouse, centrally located stockpile or storage area. The inventories included in the report for an operating establishment which are held elsewhere should not be reported on the report of the establishment where they are actually stored. Thus, inventories should not be duplicated on establishment reports.

Item 7a — Mined or Quarried Products — Report stockpiles of products (raw or beneficiated ores or coal and quarried products) ready for shipment. Include stocks of raw products awaiting treatment or beneficiation.

Item 7b — Supplies, parts, fuels, etc. — Report the costs of items to be used for extracting or beneficiating.

Item 7d — The sum of 7d(1) and 7d(2) should equal the total inventories reported in item 7c.

Item 7e — LIFO reserve represents the excess of current period cost over the LIFO carrying value.

Items 8, 9, 10, and 11

These four items provide for reporting assets, capital expenditures, retirements, depreciation, depletion, rental payments for buildings, machinery and equipment, and current account expenditures for mineral properties.

COLUMNAR INSTRUCTIONS FOR ITEMS 8, 9, 10, AND 11

Column (2) — Buildings and Other Structures — Report buildings and structures directly related to mineral exploration, development, and production. Exclude company houses and general recreation facilities. Include machinery which is an integral part of a building, such as hoists, cranes, crushers, separators, and power plants. Include, where capitalized, values from construction by your own employees. Exclude value of land.

Column (3) — Machinery and Equipment — Report all exploration, development, and production machinery; transportation equipment; and office equipment. Include such equipment as excavators, loaders, locomotives, tractors, trucks, hoists, drills, compressors, pumps, and treatment plant machinery, as well as furniture and fixtures for office, cafeterias, and change rooms. Include the value of equipment produced and used at this establishment. Include all mining, loading, transportation, and similar equipment for use at mines; treatment plant equipment which is not an integral part of a building; and automobiles, trucks, and similar equipment.

Column (4) — Mineral Exploration and Development — Report development and exploration outlays which were charged to a capital or Office of Minerals Exploration account as well as those charged to current account. Include capitalized expenditures for entries, shafts, rail and other road construction, test boring, surveying, and the like.

Column (5) — Mineral Land and Rights — Report expenditures for acquiring either undeveloped or developed acreage, including lease bonuses and any other outlays necessary to acquire leases, mineral rights, and fee lands incident to mineral exploration, development, or production.

► **Item 8 — ASSETS, CAPITAL EXPENDITURES, AND RETIREMENTS**

Items 8a and 8d — Gross Value of Depreciable and/or Depletable Assets — Report the acquisition cost (not current market value) of depreciable buildings, other structures, machinery, and equipment for which depreciation or amortization reserves are maintained. Also report the acquisition cost of assets such as capitalized mineral exploration and development or acquisition cost for mineral land and rights for which depreciation, amortization, or depletion accounts are maintained.

For new construction or other improvement projects in progress but not yet completed, include in the value of assets (items 8a and 8d) the cumulative capital expenditures for such projects already in place at the beginning and end of the year respectively. (Also include the expenditures capitalized for these projects during 1982 in item 8b).

If the establishment was acquired during the year, the value at the end of the year (item 8d) should represent your purchase cost adjusted for capital expenditures (item 8b) and deductions (item 8c) since the time of purchase.

If the establishment was sold by your company during the year, report the gross value at the beginning of the year (item 8a) at its acquisition cost. (Also report this acquisition cost plus capital expenditures which may have occurred since the beginning of the year and the time of sales in item 8c.)

Include used assets purchased during the year at their market value at the time of transfer rather than at original book value.

If the establishment maintains a tenant relationship with the parent company or one of its subsidiaries and pays "rent" for the use of either plant or equipment, report the gross value of the assets made available to the establishment.

(See instructions below for rental payments. In item 10 DO NOT report rent paid to the parent or subsidiary.)

The gross assets reported for the end of each year should be consistent with the gross assets at the beginning of the year and the annual asset changes during the year. Item 8a plus item 8b minus item 8c equals item 8d.

Item 8b — Capital Expenditures During Year — Report the actual capital outlays during 1982, not the final value of buildings or other structures completed or equipment put in place during the year, in columns (2) and (3). Also see the columnar instructions for columns (4) and (5).

Capital expenditures during 1982 may be determined by the following computation: (a) the cost of additions completed during the year, plus (b) work-in-progress at the end of the year, minus (c) work-in-progress at the beginning of the year. Include labor and installation costs whether on contract or by your own forces. These expenditures are of the type for which depletion, depreciation, or amortization accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If no expenditures of the kind described were made enter "0."

Break down the total capital expenditures for buildings, structures, machinery, and equipment shown in item 8b, columns (2) and (3) between 8b(1), capital expenditures for new buildings and machinery and 8b(2), capital expenditures for used buildings and machinery.

Item 8b(1) — Capital Expenditures for New Buildings and Machinery — Report replacements as well as additions to capacity for new depreciable assets of the type to be included in columns (2) and (3). Report the value of improvements and capitalized repairs to machinery and equipment including those done to assets transferred from other establishments of this company.

Item 8b(2) — Capital Expenditures for Used Buildings and Machinery — Report expenditures at this establishment for old or existing plants and for secondhand equipment acquired from others (including the U.S. Government). Include at gross book value machinery or equipment transferred from other establishments of your company.

Item 8c — Retirements from Depreciable and/or Depletable Assets During the Year — Report the gross value of assets sold, retired, scrapped, destroyed, abandoned, etc. during the year at their acquisition cost. Also include the value of assets transferred to other establishments of your company at their acquisition cost rather than current market value. Do not include charges to depreciation or amortization reserves.

Item 9 — DEPRECIATION AND/OR DEPLETION CHARGES DURING THE YEAR — Report the reduced value of assets (reported in item 8d) brought about through use, mineral extraction, gradual obsolescence, or the effect of the elements (decay or corrosion). Include charges against those acquired or completed during the year. Report cost depletion as an allocation of wasting investment rather than percentage or statutory depletion used for federal income tax purposes.

Item 10 — RENTAL PAYMENTS DURING THIS YEAR — Report rental payments to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. Do not include as rent any payments made by the establishment to the parent company or another subsidiary of the parent for use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets should be reported in items 8a and 8d as if they were owned by the establishment and any capital expenditures made to acquire them or any depreciation charges against them should be included also in the proper section.

If the establishment uses buildings or equipment leased from other companies, but rental payments are not made directly from the establishments account but are handled centrally at a company or division level, please report the share of rental overhead charged to the establishment or estimate the share of rental charges appropriate to the operations of the establishment. Columns (4) and (5) do not apply to item 10.

Item 11 — CURRENT ACCOUNT EXPENDITURES DURING THE YEAR — Report expenses for mineral properties charged to current accounts. Include all supplies, machinery, equipment, parts, fuel, power, etc., used for development or exploration (whether purchased or received from other establishments of your company) and charged as current operating expenses. Include the cost of maintenance and repairs associated with development or exploration activity which is charged to current accounts. Include acquisition costs for mineral land and rights which were not capitalized. Include the cost of royalty payments related to mineral production, however, exclude lease rents which should be reported separately in item 13. Also include labor costs whether on a contract basis or by your own forces. Columns (2) and (3) do not apply to item 11.

Items 14 and 15 — CHANGE IN OWNERSHIP OR COMPANY AFFILIATION AND ORGANIZATION — Please complete these items fully if pertinent. Accurate completion of these items will avoid unnecessary correspondence, as well as reduce the possibility of your receiving more than one report form for the mining activity at this location.

Item 17A — WATER USE DURING 1982 — In question 1, report the total water intake, including fresh, brackish, and salt water. If water is recirculated and reused, do not report gross water used (the sum of water intake and recirculated water).

Item 17B — COAL FOR PREPARATION, PURCHASED MACHINERY INSTALLED, AND SUPPLIES USED DURING 1982

Part I — Items Purchased or Received From Other Establishments and Used — This inquiry calls for a breakdown of the supplies used, coal received for preparation, and purchased machinery installed at this establishment during 1982 reported in item 5a of this form. Separate figures are required for each item listed. The total cost in item 17B, column (D), should agree with the total cost reported in item 5a.

Column (C) — Quantity — Report the quantities actually used in terms of the unit of measure specified in column (B-2). On lines 1 and 2, report tonnage of raw coal for preparation, before removal of refuse and waste.

Column (D) — Delivered Cost — Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed items during 1982. For supply items transferred from other establishments of this company, report values as described in instruction D on page 1. For raw coal transferred, report the value prior to preparation.

Line 3 — Purchased Machinery Installed — Include all machinery, equipment, and used plant which were purchased, or which were received from other establishments of your company whether charged to the current or capital accounts. (Machinery charged to the capital account should also be reported in item 8b.) Include equipment which was installed in the mine or preparation plant as well as mobile loading and transportation equipment.

Line 9 — Blasting Accessories — Include such items as safety fuses, detonator caps, detonating fuses, and liquid oxygen.

Part II — Quantity of Raw Coal Mined and Prepared at This Establishment — Include only the raw coal mined by the mine employees covered by this report or by contractors mining for your account, for which contract cost is reported in item 5e and net production is reported in item 18C. Do not include the coal received from other establishments of your company. Include such coal in part I, lines 1 and 2.

Item 17C — Fuels Used During 1982 and Stocks on Hand at End of Year

Fuels Used During 1982 — Report all fuels purchased from other companies or transferred from other establishments of your company and used at this establishment. A purchased fuel is considered to be any substance that was purchased or transferred from outside of the defined boundaries of the establishment in which it was consumed, for the production of heat, power, or generated electricity.

Report quantities in column (C) in the specified unit of measure and cost in column (D) in thousands of dollars. Cost is delivered cost, that is, the amount paid or payable after discounts and including freight and other direct charges incurred by the establishment in acquiring the fuels. Fuels transferred or received from other establishments of your company should be reported at their approximate market value.

Column (E) — Fuel Stocks at End of Year — Report quantities for lines 1, 2, 3, and 5 in the unit of measure indicated in column (B-2). The fuel stocks figures should represent the total quantity of unexpended fuel the establishment has on hand, including emergency reserves, at the end of the survey year. Exclude fuels that are to be used as feedstocks or raw materials. Do not include shipments of fuel on order or in transit; include only those fuel stocks physically present at the establishment's location.

Line 1 — Coal — Report only the stocks of coal purchased for fuel by this establishment in column (E). Do not include any coal mined at this establishment.

Lines 2 and 3 — Fuel Oil — If quantities are billed in gallons, divide quantity by 42 to obtain barrels.

Line 4 — Gas — If your gas is billed in therms, convert as follows: For natural gas: 10 therms equal 1,000 cubic feet. For manufactured gas: 6 therms equal 1,000 cubic feet.

Line 5 — Gasoline — Report gasoline used in automotive and other equipment.

Line 7 — Total — Should be the same as item 5c.

Line 8 — Coal From This Mine or Plant — Report the tonnage of coal that was produced and used at this establishment for power or heat.

Item 18A — TYPE OF OPERATION — See instructions on form.

Item 18B — PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1982.

Lines 1-4 — Do not include as shipments coal which was produced at this mine or plant and used at this establishment for power or heat. Report such coal in item 17C, line 8. Include as a shipment, however, coal produced at this mine or plant and used by your company at power plants not operated in conjunction with this establishment. Also, include as a shipment all coal transferred to other establishments such as coke ovens or other manufacturing plants, estimating its value, if necessary, in the manner described in instruction D on page 1.

Do not include as shipments the raw coal prepared at this establishment; include as shipments only the clean coal recovered from such raw coal.

If raw coal was sold or transferred to another mineral establishment for preparation, report on line 1 the total tonnage of raw coal before allowance for refuse and waste. If raw coal was sold or transferred for preparation or use at a manufacturing plant (coke oven, cement plant, etc.) or electric utility, report the total tonnage of raw coal before allowance for refuse and waste on line 2. Do not include under "Prepared coal" on lines 3 or 4 the clean coal recovered from this raw coal at the other establishment.

On lines 1 and 2, include only coal mined at this establishment. On lines 3 and 4, include all coal which was prepared at this establishment but do not include any coal purchased and resold without any further processing. Report the quantity and value of such resales on line 10.

Item 18C — NET PRODUCTION OF COAL FROM THE ESTABLISHMENT DURING 1982; BY TYPE OF MINING — If your establishment report covers a producing mine (underground, strip-pit, auger, culm-bank, or dredge), report the net marketable coal produced from the mine in 1982 excluding washery and other refuse. Include coal produced at this establishment and used for power or heat. Include coal mined for your account by strip-pit, underground, auger, or culm-bank contractors. The cost of this contract work should be included in item 5e.

The quantity of net marketable coal from this mine may be equal to but never greater than the quantity of coal shipped from this establishment plus coal used for power or heat, except insofar as there are differences due to changes in stocks. On the other hand, the quantity of coal shipped, plus that used at the mine or plant, may be greater than the net coal mined if (1) raw coal was sold or transferred for cleaning at other establishments, or (2) raw coal from other mines was prepared at this establishment.

Item 19 — HOURS WORKED BY PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKERS BY DEPARTMENT — For "Underground," include hours worked at underground shops. Report under "Surface," hours worked for all mine shops not located underground.

Line 5 — Total — Should equal item 4e.

Item 22 — CERTIFICATION

Period covered by this report — Enter the month and day of the beginning and the end of period your report covers. If a calendar year report: "From January 1 to December 31, 1982," if a fiscal year, specify which (such as "From December 1, 1981, to November 30, 1982)." If a part-year report is submitted because the establishment was not in operation or under your company's control for the entire year, specify the actual period covered: For example, "January 1, 1982 to August 15, 1982," or "June 1 to December 31, 1982."

REFERENCE MATERIALS • ORDER FORMS • PUBLICATION CORRECTIONS

Please send me the items marked (X) below.

☐ Corrections (if there are any) for this publication—**Mineral Industries, General Summary, MIC82-S-1**

If you purchase several different reports from the 1982 Economic Censuses, you should complete this form from each of the reports and return it to the address shown below to receive publication corrections. However, you should complete the following on **only** one of the forms.

☐ Guide to the 1982 Economic Censuses and Related Statistics

☐ Monthly Product Announcement—A monthly notice of all products released by the Census Bureau during the previous month—useful primarily to persons who plan to purchase publications, tapes, etc., in the future.

Publication announcements and order forms — *Mark (X) subjects in which you are interested.*

☐ Retail Trade

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☐ Service Industries

☐ Construction Industries

☐ Manufacturing

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☐ Transportation

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☐ Enterprise Statistics

☐ Minority- and Women-
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PUBLICATION PROGRAM

1982 CENSUS OF MINERAL INDUSTRIES

Publications of the 1982 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Preliminary Reports

Preliminary data from the 1982 census have been issued in 12 industry and 2 summary reports covering all of the 42 mineral industries. These reports are superseded by more detailed final reports.

Final Reports

Final detailed statistics are issued in separate paperbound reports.

Industry series—12 reports (MIC82-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 42 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased, quantity of fuel stocks, and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization and depletion; payrolls; hours worked; cost of purchased machinery; value added by mining; mineral development and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC82-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States for two- and three-digit industry groups by type of operation and by county. Also, data are shown for value of

shipments, value added by mining, employment, payroll, hours worked, capital expenditures, cost of supplies, etc., purchased machinery installed, and number of mining establishments, with comparative 1977 data on employment and value added by mining.

Subject series—4 reports (MIC82-S-1 to -4)

Each of the 4 reports contains detailed statistics for an individual subject, such as water use in mineral industries; gross value of depreciable assets, capital expenditures, retirements, depreciation and rental payments; fuels and electric energy consumed; and a general National-level summary.

Microfiche

All published data are also available on microfiche.

Availability of Public Use Computer Tapes

Public-use computer tapes for the census of mineral industries are not included as part of the economic census publication program. Special tabulations can be made available on computer tape on a contract, cost-reimbursable basis. Contact Industry Division, Bureau of the Census, Washington, D.C. 20233 for more information.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, manufactures, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U.S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

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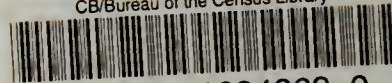
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